

## 1) Project Information

|                |                                          |
|----------------|------------------------------------------|
| Program        | PLANT                                    |
| PMO Project    | Porphyra umbilicalis Spores –Single Cell |
| JGI Project ID | 404785                                   |
| Library(s)     | IGAF                                     |
| Libray Method  | Illumina Std PE Unamplified              |

## 2) Read Statistics

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| Number of reads               | 5,149,534                                                |
| Read type(s)                  | 2x150, 2x150                                             |
| Sequencing depth <sup>†</sup> | 154x                                                     |
| File name(s)                  | 2045.1.1737.ATCACG.fastq.gz, 2045.2.1737.ATCACG.fastq.gz |

<sup>†</sup> A genome size of 5Mbp was assumed in this calculation.

## 3) Read QC Results

The following are the results of reads screened against comtaninants. Pairs of matching reads were removed from the dataset.

| Description        | Num Reads | Pct Reads |
|--------------------|-----------|-----------|
| Input              | 5,149,534 | 100       |
| Contam removed     | 8         | 0.0       |
| Artifact removed   | 25,418    | 0.5       |
| Normalized removed | 2,751,656 | 53.4      |
| Total removed      | 2,777,082 | 53.9      |
| Total remaining    | 2,372,452 | 46.1      |

List of contaminants removed.

| Description | Num Reads | Pct Reads |
|-------------|-----------|-----------|
| human_chr1  | 2         | 0.00      |
| human_chr3  | 2         | 0.00      |
| human_chr22 | 2         | 0.00      |
| human_chr15 | 2         | 0.00      |

The following are the results of reads screened against potential reagent and process contaminants but were not removed from the dataset.

| Description       | Num Reads | Pct Reads |
|-------------------|-----------|-----------|
| Input             | 5,149,534 | 100       |
| Contam identified | 668       | 0.0       |

List of contaminants identified.

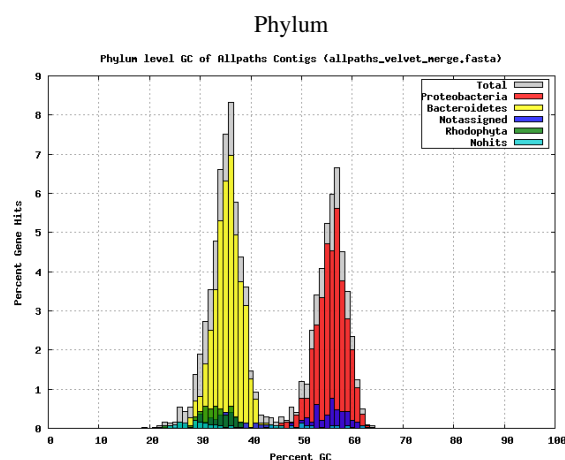
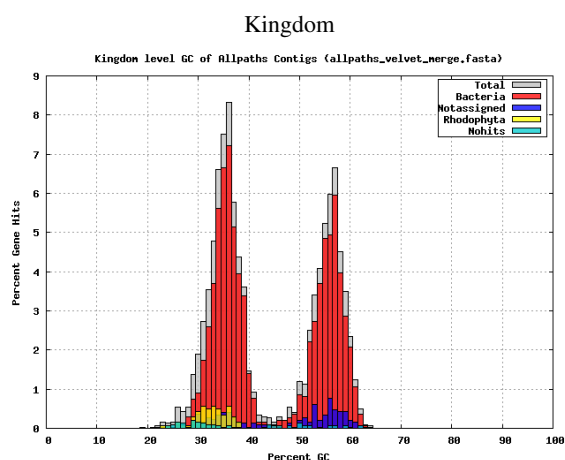
| Description        | Num Reads | Pct Reads |
|--------------------|-----------|-----------|
| <i>Ralstonia</i>   | 414       | 0.01      |
| <i>Pseudomonas</i> | 254       | 0.00      |

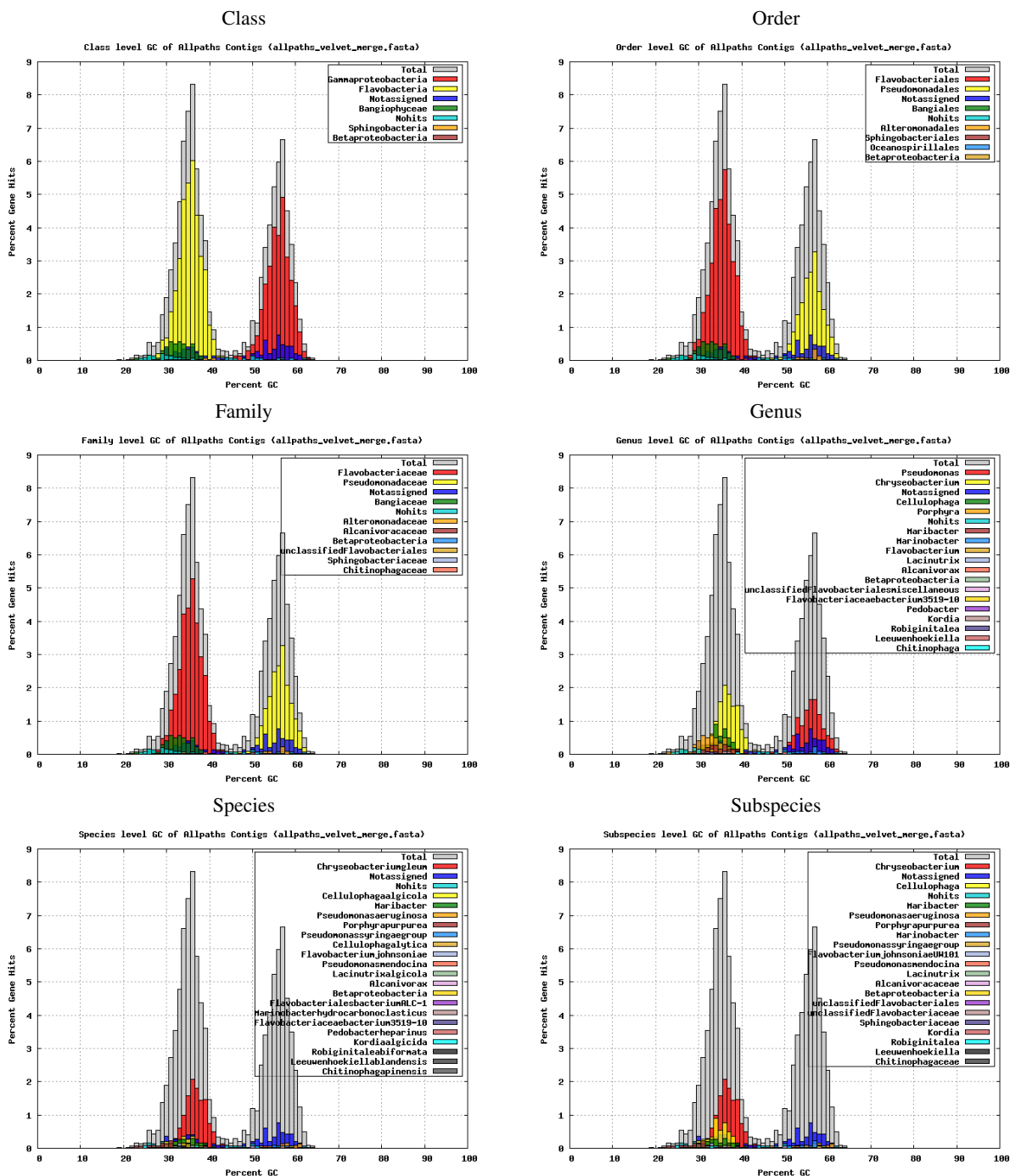
#### 4) Assembly Statistics

|                                   |                        |
|-----------------------------------|------------------------|
| Assembly method                   | Velvet/Allpaths hybrid |
| Scaffold total                    | 2,430                  |
| Contig total                      | 2,430                  |
| Scaffold sequence length          | 12.5 MB                |
| Contig sequence length            | 12.5 MB ( 0.0% gap)    |
| Scaffold N/L50                    | 123 / 27.3 KB          |
| Contig N/L50                      | 123 / 27.3 KB          |
| Number of scaffolds >50 KB        | 44                     |
| Pct of genome in scaffolds >50 KB | 27.5                   |

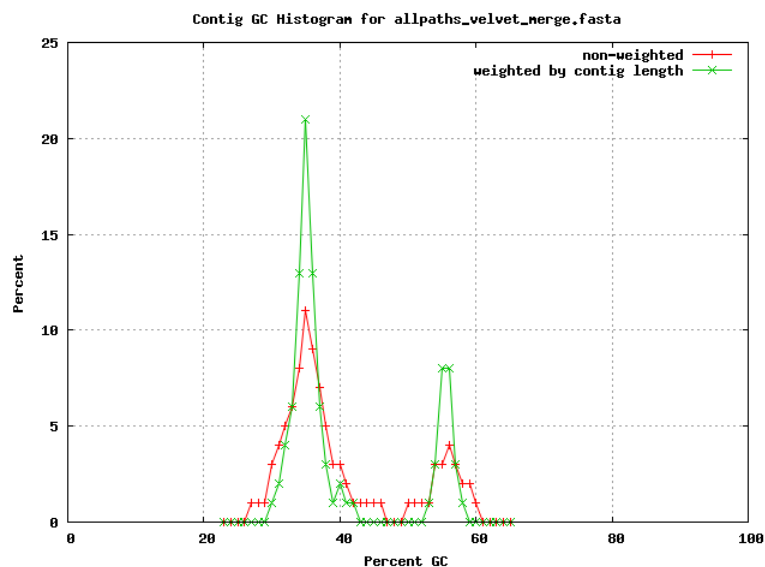
#### 5) Assembly QC Results

GC histogram of the predicted genes on each contig, overlaid with GC of hits based on BLASTP/MEGAN analysis, shown for different taxonomic levels.





GC histogram of the contigs, including contig length weighted distribution.



List of contigs and average percent GC, grouped in bins of 5:

| Pct GC Bin | Contig Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20         | NODE-unique.627.length.2380, NODE-unique.1854.length.643, NODE-unique.1927.length.620, NODE-unique.1956.length.612, NODE-unique.2198.length.554                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 25         | NODE-unique.398.length.5484, NODE-unique.451.length.4436, NODE-unique.541.length.3019, NODE-unique.546.length.2944, NODE-unique.573.length.2733, NODE-unique.584.length.2660, NODE-unique.656.length.2241, NODE-unique.774.length.1751, NODE-unique.827.length.1608, NODE-unique.869.length.1511, NODE-unique.870.length.1508, NODE-unique.906.length.1445, NODE-unique.938.length.1392, NODE-unique.961.length.1365, NODE-unique.968.length.1359, NODE-unique.979.length.1344, NODE-unique.985.length.1336, NODE-unique.986.length.1336, NODE-unique.1000.length.1313, NODE-unique.1006.length.1298, NODE-unique.1009.length.1296, NODE-unique.1043.length.1241, NODE-unique.1150.length.1122, NODE-unique.1174.length.1094, NODE-unique.1181.length.1088, NODE-unique.1203.length.1068, NODE-unique.1205.length.1068, NODE-unique.1251.length.1026, NODE-unique.1274.length.1004, NODE-unique.1317.length.960, NODE-unique.1325.length.946, NODE-unique.1352.length.905, NODE-unique.1366.length.897, NODE-unique.1386.length.887, NODE-unique.1416.length.865, NODE-unique.1417.length.865, NODE-unique.1453.length.838, NODE-unique.1468.length.826, NODE-unique.1488.length.811, NODE-unique.1590.length.756, NODE-unique.1608.length.742, NODE-unique.1661.length.718, NODE-unique.1682.length.708, NODE-unique.1690.length.706, NODE-unique.1693.length.705, NODE-unique.1697.length.704, NODE-unique.1756.length.677, NODE-unique.1759.length.677, NODE-unique.1773.length.672, NODE-unique.1775.length.672, NODE-unique.1777.length.671, NODE-unique.1802.length.660, NODE-unique.1805.length.660, NODE-unique.1820.length.656, NODE-unique.1823.length.655, NODE-unique.1885.length.633, NODE-unique.1904.length.627, NODE-unique.1928.length.619, NODE-unique.1949.length.615, NODE-unique.1969.length.609, NODE-unique.1984.length.605, NODE-unique.2013.length.597, NODE-unique.2015.length.596, NODE-unique.2041.length.591, NODE-unique.2045.length.590, NODE-unique.2053.length.589, NODE-unique.2089.length.582, NODE-unique.2122.length.573, NODE-unique.2127.length.572, NODE-unique.2131.length.571, NODE-unique.2158.length.565, NODE-unique.2171.length.561, NODE-unique.2187.length.557, NODE-unique.2206.length.552, NODE-unique.2216.length.549, NODE-unique.2236.length.544, NODE-unique.2278.length.535, NODE-unique.2280.length.535, NODE-unique.2323.length.524, NODE-unique.2358.length.515, NODE-unique.2362.length.514, NODE-unique.2368.length.513, NODE-unique.2388.length.509, NODE-unique.2402.length.507, NODE-unique.2408.length.505 |
| 30         | NODE-unique.3.length.144356, NODE-unique.5.length.121710, NODE-unique.7.length.114878, NODE-unique.8.length.113644, NODE-unique.13.length.85797, NODE-unique.23.length.65441, NODE-unique.27.length.62545, NODE-unique.28.length.61550, NODE-unique.32.length.58283, NODE-unique.40.length.50936, NODE-unique.43.length.50866, NODE-unique.48.length.47478, NODE-unique.55.length.44446, NODE-unique.62.length.41026, NODE-unique.65.length.39698, NODE-unique.66.length.39550, NODE-unique.69.length.38562, NODE-unique.70.length.38145, NODE-unique.71.length.37966, NODE-unique.73.length.37289, NODE-unique.78.length.36242, NODE-unique.80.length.36045, NODE-unique.83.length.35473, NODE-unique.85.length.35192, NODE-unique.93.length.33619, NODE-unique.98.length.32992, NODE-unique.99.length.31836, NODE-unique.102.length.31282, NODE-unique.103.length.31117, NODE-unique.105.length.30717, NODE-unique.111.length.29187, NODE-unique.113.length.28756, NODE-unique.121.length.27480, NODE-unique.122.length.27367, NODE-unique.127.length.26111, NODE-unique.135.length.25057, NODE-unique.147.length.24142, NODE-unique.148.length.23844, NODE-unique.151.length.23388, NODE-unique.152.length.23335, NODE-unique.153.length.23298, NODE-unique.160.length.21930, NODE-unique.162.length.21877, NODE-unique.164.length.21811, NODE-unique.167.length.21656,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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NODE-unique.1642.length.728, NODE-unique.1643.length.728, NODE-unique.1645.length.727, NODE-unique.1649.length.726, NODE-unique.1652.length.724, NODE-unique.1655.length.722, NODE-unique.1658.length.720, NODE-unique.1666.length.717, NODE-unique.1667.length.717, NODE-unique.1668.length.716, NODE-unique.1669.length.716, NODE-unique.1687.length.707, NODE-unique.1688.length.707, NODE-unique.1703.length.702, NODE-unique.1704.length.702, NODE-unique.1708.length.701, NODE-unique.1712.length.699, NODE-unique.1716.length.697, NODE-unique.1719.length.694, NODE-unique.1726.length.692, NODE-unique.1728.length.691, NODE-unique.1730.length.688, NODE-unique.1731.length.687, NODE-unique.1732.length.687, NODE-unique.1733.length.687, NODE-unique.1736.length.685, NODE-unique.1739.length.684, NODE-unique.1741.length.683, NODE-unique.1749.length.680, NODE-unique.1753.length.678, NODE-unique.1754.length.678, NODE-unique.1761.length.676, NODE-unique.1762.length.676, NODE-unique.1766.length.674, 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|    | <p>             NODE-unique.1880.length.634, NODE-unique.1882.length.633, NODE-unique.1886.length.633,<br/>             NODE-unique.1887.length.633, NODE-unique.1892.length.631, NODE-unique.1894.length.631,<br/>             NODE-unique.1897.length.630, NODE-unique.1903.length.628, NODE-unique.1906.length.626,<br/>             NODE-unique.1910.length.626, NODE-unique.1912.length.625, NODE-unique.1917.length.624,<br/>             NODE-unique.1920.length.623, NODE-unique.1924.length.621, NODE-unique.1925.length.620,<br/>             NODE-unique.1931.length.619, NODE-unique.1932.length.619, NODE-unique.1935.length.619,<br/>             NODE-unique.1937.length.619, NODE-unique.1941.length.618, NODE-unique.1948.length.616,<br/>             NODE-unique.1951.length.615, NODE-unique.1965.length.610, NODE-unique.1966.length.610,<br/>             NODE-unique.1967.length.609, NODE-unique.1968.length.609, NODE-unique.1971.length.608,<br/>             NODE-unique.1972.length.608, NODE-unique.1973.length.608, NODE-unique.1989.length.604,<br/>             NODE-unique.1995.length.602, NODE-unique.1999.length.600, NODE-unique.2000.length.599,<br/>             NODE-unique.2006.length.598, NODE-unique.2007.length.598, NODE-unique.2010.length.597,<br/>             NODE-unique.2011.length.597, NODE-unique.2014.length.597, NODE-unique.2021.length.595,<br/>             NODE-unique.2023.length.594, NODE-unique.2027.length.594, NODE-unique.2029.length.593,<br/>             NODE-unique.2037.length.591, NODE-unique.2044.length.591, NODE-unique.2051.length.589,<br/>             NODE-unique.2056.length.588, NODE-unique.2058.length.588, NODE-unique.2060.length.587,<br/>             NODE-unique.2061.length.587, NODE-unique.2068.length.586, NODE-unique.2070.length.586,<br/>             NODE-unique.2074.length.584, NODE-unique.2079.length.583, NODE-unique.2082.length.583,<br/>             NODE-unique.2084.length.582, NODE-unique.2085.length.582, NODE-unique.2093.length.580,<br/>             NODE-unique.2096.length.579, NODE-unique.2101.length.577, NODE-unique.2106.length.576,<br/>             NODE-unique.2110.length.576, NODE-unique.2112.length.575, NODE-unique.2115.length.575,<br/>             NODE-unique.2118.length.574, NODE-unique.2119.length.573, NODE-unique.2125.length.572,<br/>             NODE-unique.2128.length.572, NODE-unique.2129.length.572, NODE-unique.2130.length.572,<br/>             NODE-unique.2133.length.570, NODE-unique.2137.length.570, NODE-unique.2138.length.569,<br/>             NODE-unique.2139.length.569, NODE-unique.2140.length.569, NODE-unique.2141.length.569,<br/>             NODE-unique.2143.length.568, NODE-unique.2147.length.568, NODE-unique.2160.length.564,<br/>             NODE-unique.2162.length.564, NODE-unique.2163.length.564, NODE-unique.2170.length.561,<br/>             NODE-unique.2172.length.561, NODE-unique.2173.length.561, NODE-unique.2186.length.557,<br/>             NODE-unique.2191.length.556, NODE-unique.2200.length.552, NODE-unique.2201.length.552,<br/>             NODE-unique.2205.length.552, NODE-unique.2208.length.551, NODE-unique.2213.length.551,<br/>             NODE-unique.2218.length.549, NODE-unique.2221.length.548, NODE-unique.2225.length.547,<br/>             NODE-unique.2228.length.547, NODE-unique.2233.length.545, NODE-unique.2235.length.545,<br/>             NODE-unique.2239.length.544, NODE-unique.2242.length.543, NODE-unique.2251.length.542,<br/>             NODE-unique.2256.length.540, NODE-unique.2264.length.538, NODE-unique.2271.length.536,<br/>             NODE-unique.2276.length.535, NODE-unique.2281.length.534, NODE-unique.2282.length.534,<br/>             NODE-unique.2283.length.534, NODE-unique.2287.length.533, NODE-unique.2288.length.532,<br/>             NODE-unique.2290.length.532, NODE-unique.2300.length.529, NODE-unique.2302.length.528,<br/>             NODE-unique.2307.length.527, NODE-unique.2312.length.527, NODE-unique.2317.length.526,<br/>             NODE-unique.2321.length.525, NODE-unique.2328.length.524, NODE-unique.2335.length.521,<br/>             NODE-unique.2336.length.521, NODE-unique.2338.length.520, NODE-unique.2339.length.519,<br/>             NODE-unique.2344.length.519, NODE-unique.2345.length.518, NODE-unique.2347.length.518,<br/>             NODE-unique.2349.length.517, NODE-unique.2351.length.516, NODE-unique.2363.length.514,<br/>             NODE-unique.2364.length.514, NODE-unique.2370.length.513, NODE-unique.2372.length.512,<br/>             NODE-unique.2375.length.511, NODE-unique.2378.length.511, NODE-unique.2383.length.510,<br/>             NODE-unique.2392.length.508, NODE-unique.2393.length.508, NODE-unique.2399.length.507,<br/>             NODE-unique.2404.length.506, NODE-unique.2415.length.503, NODE-unique.2422.length.502           </p> |
| 35 | <p>             NODE-unique.12.length.89327, NODE-unique.15.length.82262, NODE-unique.16.length.77310,<br/>             NODE-unique.17.length.71052, NODE-unique.20.length.66972, NODE-unique.21.length.66790,<br/>             NODE-unique.22.length.65457, NODE-unique.24.length.63681, NODE-unique.26.length.62839,<br/>             NODE-unique.30.length.59677, NODE-unique.31.length.59169, NODE-unique.33.length.57707,<br/>             NODE-unique.34.length.57183, NODE-unique.35.length.53962, NODE-unique.41.length.50912,<br/>             NODE-unique.42.length.50874, NODE-unique.49.length.47092, NODE-unique.50.length.46853,<br/>             NODE-unique.53.length.45322, NODE-unique.56.length.43805, NODE-unique.57.length.43379,<br/>             NODE-unique.58.length.42985, NODE-unique.60.length.41944, NODE-unique.61.length.41109,<br/>             NODE-unique.63.length.41022, NODE-unique.64.length.40932, NODE-unique.67.length.38845,<br/>             NODE-unique.68.length.38663, NODE-unique.72.length.37513, NODE-unique.74.length.37135,<br/>             NODE-unique.76.length.37004, NODE-unique.79.length.36062, NODE-unique.81.length.35737,<br/>             NODE-unique.82.length.35718, NODE-unique.84.length.35298, NODE-unique.86.length.34837,<br/>             NODE-unique.87.length.34686, NODE-unique.88.length.34480, NODE-unique.89.length.34097,<br/>             NODE-unique.90.length.33968, NODE-unique.91.length.33951, NODE-unique.92.length.33624,<br/>             NODE-unique.94.length.33549, NODE-unique.95.length.33518, NODE-unique.96.length.33223,<br/>             NODE-unique.97.length.33200, NODE-unique.100.length.31619, NODE-unique.101.length.31299,<br/>             NODE-unique.104.length.30953, NODE-unique.106.length.30424, NODE-unique.107.length.30253,<br/>             NODE-unique.108.length.29965, NODE-unique.109.length.29749, NODE-unique.110.length.29569,<br/>             NODE-unique.112.length.29053, NODE-unique.115.length.28061, NODE-unique.117.length.27864,<br/>             NODE-unique.118.length.27709, NODE-unique.119.length.27572, NODE-unique.120.length.27510,<br/>             NODE-unique.123.length.27345, NODE-unique.125.length.27009, NODE-unique.129.length.25819,<br/>             NODE-unique.130.length.25794, NODE-unique.132.length.25568, NODE-unique.133.length.25477,<br/>             NODE-unique.134.length.25420, NODE-unique.136.length.24929, NODE-unique.137.length.24892,<br/>             NODE-unique.138.length.24887, NODE-unique.140.length.24769, NODE-unique.141.length.24766,<br/>             NODE-unique.142.length.24512, NODE-unique.143.length.24494, NODE-unique.144.length.24390,<br/>             NODE-unique.146.length.24216, NODE-unique.150.length.23556, NODE-unique.154.length.22933,<br/>             NODE-unique.155.length.22760, NODE-unique.156.length.22698, NODE-unique.157.length.22311,<br/>             NODE-unique.158.length.22167, NODE-unique.159.length.21953, NODE-unique.166.length.21676,<br/>             NODE-unique.168.length.21355, NODE-unique.169.length.21113, NODE-unique.170.length.20888,<br/>             NODE-unique.172.length.20548, NODE-unique.174.length.20419, NODE-unique.178.length.20223,<br/>             NODE-unique.182.length.19809, NODE-unique.184.length.19324, NODE-unique.185.length.19304,           </p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

NODE-unique.187.length.18994, NODE-unique.188.length.18979, NODE-unique.190.length.18756, NODE-unique.191.length.18603, NODE-unique.194.length.18237, NODE-unique.196.length.17832, NODE-unique.197.length.17798, NODE-unique.198.length.17736, NODE-unique.199.length.17598, NODE-unique.201.length.17306, NODE-unique.202.length.17186, NODE-unique.203.length.17063, NODE-unique.205.length.16504, NODE-unique.206.length.16443, NODE-unique.208.length.16375, NODE-unique.209.length.16372, NODE-unique.210.length.16367, NODE-unique.211.length.16047, NODE-unique.212.length.15954, NODE-unique.213.length.15898, NODE-unique.214.length.15597, NODE-unique.215.length.15574, NODE-unique.216.length.15547, NODE-unique.217.length.15432, NODE-unique.221.length.14967, NODE-unique.223.length.14813, NODE-unique.225.length.14478, NODE-unique.228.length.14233, NODE-unique.229.length.14168, NODE-unique.230.length.14083, NODE-unique.231.length.14075, NODE-unique.232.length.14035, NODE-unique.235.length.13757, NODE-unique.236.length.13736, NODE-unique.239.length.13411, NODE-unique.240.length.13389, NODE-unique.241.length.13337, NODE-unique.242.length.12988, NODE-unique.243.length.12978, NODE-unique.244.length.12977, NODE-unique.245.length.12975, NODE-unique.246.length.12931, NODE-unique.250.length.12437, NODE-unique.251.length.12378, NODE-unique.254.length.12217, NODE-unique.255.length.12129, NODE-unique.256.length.12039, NODE-unique.259.length.11890, NODE-unique.260.length.11466, NODE-unique.261.length.11430, NODE-unique.262.length.11424, NODE-unique.263.length.11376, NODE-unique.264.length.11348, NODE-unique.268.length.11312, NODE-unique.273.length.11144, NODE-unique.275.length.10995, NODE-unique.278.length.10806, NODE-unique.279.length.10696, NODE-unique.280.length.10695, NODE-unique.284.length.10619, NODE-unique.287.length.10495, NODE-unique.292.length.10241, NODE-unique.295.length.9810, NODE-unique.296.length.9741, NODE-unique.298.length.9727, NODE-unique.299.length.9702, NODE-unique.300.length.9672, NODE-unique.302.length.9480, NODE-unique.303.length.9475, NODE-unique.305.length.9449, NODE-unique.306.length.9427, NODE-unique.308.length.9351, NODE-unique.310.length.9238, NODE-unique.311.length.9050, NODE-unique.312.length.8907, NODE-unique.313.length.8898, NODE-unique.314.length.8836, NODE-unique.317.length.8721, NODE-unique.320.length.8542, NODE-unique.321.length.8509, NODE-unique.323.length.8390, NODE-unique.324.length.8377, NODE-unique.325.length.8256, NODE-unique.326.length.8214, NODE-unique.327.length.8176, NODE-unique.328.length.8039, NODE-unique.329.length.8036, NODE-unique.332.length.7869, NODE-unique.335.length.7745, NODE-unique.337.length.7666, NODE-unique.339.length.7521, NODE-unique.341.length.7436, NODE-unique.342.length.7429, NODE-unique.344.length.7389, NODE-unique.345.length.7371, NODE-unique.346.length.7322, NODE-unique.350.length.7168, NODE-unique.351.length.7161, NODE-unique.352.length.7123, NODE-unique.356.length.6904, NODE-unique.357.length.6861, NODE-unique.364.length.6535, NODE-unique.365.length.6527, NODE-unique.367.length.6443, NODE-unique.368.length.6434, NODE-unique.370.length.6366, NODE-unique.373.length.6205, NODE-unique.376.length.6073, NODE-unique.377.length.6049, NODE-unique.382.length.5995, NODE-unique.385.length.5817, NODE-unique.387.length.5786, NODE-unique.390.length.5758, NODE-unique.391.length.5731, NODE-unique.396.length.5602, NODE-unique.400.length.5383, NODE-unique.402.length.5359, NODE-unique.404.length.5356, NODE-unique.405.length.5336, NODE-unique.407.length.5311, NODE-unique.410.length.5300, NODE-unique.412.length.5270, NODE-unique.413.length.5267, NODE-unique.415.length.5146, NODE-unique.420.length.5015, NODE-unique.421.length.4956, NODE-unique.424.length.4931, NODE-unique.427.length.4847, NODE-unique.429.length.4806, NODE-unique.430.length.4801, NODE-unique.434.length.4752, NODE-unique.435.length.4749, NODE-unique.445.length.4472, NODE-unique.453.length.4365, NODE-unique.455.length.4313, NODE-unique.456.length.4286, NODE-unique.457.length.4279, NODE-unique.458.length.4271, NODE-unique.459.length.4266, NODE-unique.460.length.4253, NODE-unique.462.length.4235, NODE-unique.470.length.4121, NODE-unique.471.length.4119, NODE-unique.473.length.4037, NODE-unique.474.length.3977, NODE-unique.476.length.3962, NODE-unique.479.length.3862, NODE-unique.483.length.3820, NODE-unique.487.length.3785, NODE-unique.489.length.3747, NODE-unique.492.length.3719, NODE-unique.495.length.3696, NODE-unique.496.length.3685, NODE-unique.500.length.3659, NODE-unique.501.length.3624, NODE-unique.503.length.3603, NODE-unique.507.length.3568, NODE-unique.512.length.3489, NODE-unique.513.length.3443, NODE-unique.515.length.3420, NODE-unique.516.length.3413, NODE-unique.517.length.3411, NODE-unique.520.length.3326, NODE-unique.523.length.3287, NODE-unique.529.length.3211, NODE-unique.531.length.3198, NODE-unique.532.length.3183, NODE-unique.537.length.3097, NODE-unique.543.length.2989, NODE-unique.545.length.2950, NODE-unique.549.length.2921, NODE-unique.550.length.2890, NODE-unique.551.length.2886, NODE-unique.568.length.2757, NODE-unique.570.length.2738, NODE-unique.572.length.2733, NODE-unique.574.length.2731, NODE-unique.576.length.2705, NODE-unique.582.length.2679, NODE-unique.583.length.2675, NODE-unique.591.length.2636, NODE-unique.593.length.2630, NODE-unique.594.length.2608, NODE-unique.600.length.2549, NODE-unique.602.length.2545, NODE-unique.603.length.2540, NODE-unique.604.length.2539, NODE-unique.610.length.2504, NODE-unique.613.length.2496, NODE-unique.617.length.2467, NODE-unique.620.length.2429, NODE-unique.622.length.2415, NODE-unique.623.length.2405, NODE-unique.624.length.2400, NODE-unique.626.length.2390, NODE-unique.631.length.2348, NODE-unique.632.length.2345, NODE-unique.633.length.2344, NODE-unique.636.length.2335, NODE-unique.644.length.2286, NODE-unique.647.length.2272, NODE-unique.648.length.2269, 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|    | <p>             NODE-unique.1988.length.604, NODE-unique.1998.length.600, NODE-unique.2033.length.592,<br/>             NODE-unique.2057.length.588, NODE-unique.2062.length.587, NODE-unique.2065.length.586,<br/>             NODE-unique.2066.length.586, NODE-unique.2087.length.582, NODE-unique.2099.length.578,<br/>             NODE-unique.2105.length.577, NODE-unique.2114.length.575, NODE-unique.2154.length.566,<br/>             NODE-unique.2164.length.563, NODE-unique.2174.length.561, NODE-unique.2178.length.560,<br/>             NODE-unique.2179.length.560, NODE-unique.2180.length.560, NODE-unique.2188.length.557,<br/>             NODE-unique.2192.length.555, NODE-unique.2217.length.549, NODE-unique.2222.length.548,<br/>             NODE-unique.2223.length.548, NODE-unique.2234.length.545, NODE-unique.2246.length.542,<br/>             NODE-unique.2249.length.542, NODE-unique.2261.length.540, NODE-unique.2275.length.535,<br/>             NODE-unique.2284.length.534, NODE-unique.2285.length.533, NODE-unique.2286.length.533,<br/>             NODE-unique.2291.length.532, NODE-unique.2293.length.531, NODE-unique.2297.length.529,<br/>             NODE-unique.2306.length.528, NODE-unique.2348.length.518, NODE-unique.2352.length.516,<br/>             NODE-unique.2369.length.513, NODE-unique.2374.length.512, NODE-unique.2397.length.507,<br/>             NODE-unique.2412.length.504, NODE-unique.2419.length.503, NODE-unique.2421.length.503,<br/>             NODE-unique.2423.length.502, NODE-unique.2428.length.501           </p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 45 | <p>             NODE-unique.289.length.10388, NODE-unique.362.length.6631, NODE-unique.432.length.4778,<br/>             NODE-unique.468.length.4152, NODE-unique.579.length.2695, NODE-unique.619.length.2453,<br/>             NODE-unique.646.length.2273, NODE-unique.672.length.2153, NODE-unique.784.length.1720,<br/>             NODE-unique.806.length.1660, NODE-unique.820.length.1629, NODE-unique.825.length.1620,<br/>             NODE-unique.847.length.1552, NODE-unique.863.length.1519, NODE-unique.871.length.1507,<br/>             NODE-unique.916.length.1426, NODE-unique.970.length.1358, NODE-unique.1001.length.1311,<br/>             NODE-unique.1052.length.1227, NODE-unique.1103.length.1170, NODE-unique.1184.length.1085,<br/>             NODE-unique.1338.length.935, NODE-unique.1368.length.896, NODE-unique.1393.length.882,<br/>             NODE-unique.1426.length.857, NODE-unique.1436.length.848, NODE-unique.1509.length.794,<br/>             NODE-unique.1523.length.777, NODE-unique.1545.length.775, NODE-unique.1550.length.774,<br/>             NODE-unique.1605.length.747, NODE-unique.1663.length.718, NODE-unique.1798.length.662,<br/>             NODE-unique.1824.length.654, NODE-unique.1857.length.643, NODE-unique.1863.length.641,<br/>             NODE-unique.1883.length.633, NODE-unique.1913.length.625, NODE-unique.1922.length.622,<br/>             NODE-unique.1923.length.622, NODE-unique.2008.length.598, NODE-unique.2031.length.593,<br/>             NODE-unique.2039.length.591, NODE-unique.2088.length.582, NODE-unique.2091.length.581,<br/>             NODE-unique.2095.length.580, NODE-unique.2123.length.573, NODE-unique.2124.length.573,<br/>             NODE-unique.2132.length.571, NODE-unique.2149.length.568, NODE-unique.2161.length.564,<br/>             NODE-unique.2182.length.559, NODE-unique.2204.length.552, NODE-unique.2210.length.551,<br/>             NODE-unique.2229.length.546, NODE-unique.2250.length.542, NODE-unique.2257.length.540,<br/>             NODE-unique.2292.length.531, NODE-unique.2299.length.529, NODE-unique.2327.length.524,<br/>             NODE-unique.2333.length.521, NODE-unique.2366.length.513, NODE-unique.2387.length.509,<br/>             NODE-unique.2403.length.506           </p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 50 | <p>             NODE-unique.4.length.130784, NODE-unique.39.length.52696, NODE-unique.145.length.24288,<br/>             NODE-unique.173.length.20536, NODE-unique.226.length.14448, NODE-unique.233.length.13963,<br/>             NODE-unique.258.length.12007, NODE-unique.266.length.11337, NODE-unique.274.length.11108,<br/>             NODE-unique.281.length.10667, NODE-unique.319.length.8680, NODE-unique.353.length.7103,<br/>             NODE-unique.355.length.6941, NODE-unique.358.length.6772, NODE-unique.361.length.6698,<br/>             NODE-unique.375.length.6103, NODE-unique.378.length.6031, NODE-unique.380.length.6023,<br/>             NODE-unique.414.length.5194, NODE-unique.426.length.4861, NODE-unique.436.length.4738,<br/>             NODE-unique.472.length.4051, NODE-unique.484.length.3806, NODE-unique.490.length.3742,<br/>             NODE-unique.491.length.3736, NODE-unique.525.length.3272, NODE-unique.527.length.3227,<br/>             NODE-unique.540.length.3034, NODE-unique.555.length.2850, NODE-unique.571.length.2735,<br/>             NODE-unique.575.length.2707, NODE-unique.597.length.2586, NODE-unique.605.length.2517,<br/>             NODE-unique.630.length.2350, NODE-unique.637.length.2333, NODE-unique.654.length.2249,<br/>             NODE-unique.668.length.2183, NODE-unique.671.length.2169, NODE-unique.678.length.2117,<br/>             NODE-unique.698.length.2036, NODE-unique.699.length.2027, NODE-unique.717.length.1957,<br/>             NODE-unique.722.length.1930, NODE-unique.729.length.1896, NODE-unique.743.length.1854,<br/>             NODE-unique.756.length.1812, NODE-unique.763.length.1789, NODE-unique.776.length.1744,<br/>             NODE-unique.778.length.1738, NODE-unique.802.length.1678, NODE-unique.808.length.1656,<br/>             NODE-unique.843.length.1560, NODE-unique.845.length.1555, NODE-unique.864.length.1519,<br/>             NODE-unique.868.length.1512, NODE-unique.872.length.1506, NODE-unique.882.length.1485,<br/>             NODE-unique.898.length.1456, NODE-unique.931.length.1403, NODE-unique.932.length.1400,<br/>             NODE-unique.935.length.1397, NODE-unique.947.length.1382, NODE-unique.949.length.1379,<br/>             NODE-unique.958.length.1368, NODE-unique.959.length.1367, NODE-unique.962.length.1364,<br/>             NODE-unique.989.length.1330, NODE-unique.990.length.1330, NODE-unique.1003.length.1309,<br/>             NODE-unique.1008.length.1296, NODE-unique.1019.length.1277, NODE-unique.1037.length.1249,<br/>             NODE-unique.1039.length.1248, NODE-unique.1098.length.1174, NODE-unique.1110.length.1161,<br/>             NODE-unique.1143.length.1134, NODE-unique.1167.length.1104, NODE-unique.1173.length.1099,<br/>             NODE-unique.1185.length.1085, NODE-unique.1198.length.1071, NODE-unique.1257.length.1017,<br/>             NODE-unique.1272.length.1006, NODE-unique.1283.length.990, NODE-unique.1294.length.976,<br/>             NODE-unique.1318.length.958, NODE-unique.1326.length.945, NODE-unique.1346.length.914,<br/>             NODE-unique.1372.length.895, NODE-unique.1396.length.879, NODE-unique.1427.length.857,<br/>             NODE-unique.1430.length.853, NODE-unique.1435.length.852, NODE-unique.1491.length.809,<br/>             NODE-unique.1492.length.808, NODE-unique.1493.length.808, NODE-unique.1504.length.801,<br/>             NODE-unique.1507.length.798, NODE-unique.1508.length.797, NODE-unique.1510.length.794,<br/>             NODE-unique.1538.length.780, NODE-unique.1539.length.780, NODE-unique.1546.length.775,<br/>             NODE-unique.1554.length.773, NODE-unique.1567.length.769, NODE-unique.1584.length.758,<br/>             NODE-unique.1598.length.752, NODE-unique.1616.length.736, NODE-unique.1623.length.734,<br/>             NODE-unique.1636.length.729, NODE-unique.1654.length.723, NODE-unique.1662.length.718,<br/>             NODE-unique.1673.length.713, NODE-unique.1713.length.698, NODE-unique.1748.length.680,<br/>             NODE-unique.1763.length.676, NODE-unique.1781.length.669, NODE-unique.1793.length.665,<br/>             NODE-unique.1804.length.660, NODE-unique.1816.length.657, NODE-unique.1831.length.652,           </p> |

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|    | <p>             NODE-unique.1839.length.651, NODE-unique.1847.length.645, NODE-unique.1871.length.638,<br/>             NODE-unique.1881.length.634, NODE-unique.1890.length.632, NODE-unique.1997.length.602,<br/>             NODE-unique.2017.length.596, NODE-unique.2022.length.595, NODE-unique.2026.length.594,<br/>             NODE-unique.2036.length.591, NODE-unique.2038.length.591, NODE-unique.2043.length.591,<br/>             NODE-unique.2063.length.587, NODE-unique.2080.length.583, NODE-unique.2090.length.582,<br/>             NODE-unique.2107.length.576, NODE-unique.2108.length.576, NODE-unique.2136.length.570,<br/>             NODE-unique.2166.length.562, NODE-unique.2193.length.555, NODE-unique.2207.length.552,<br/>             NODE-unique.2230.length.546, NODE-unique.2237.length.544, NODE-unique.2243.length.543,<br/>             NODE-unique.2244.length.543, NODE-unique.2247.length.542, NODE-unique.2253.length.542,<br/>             NODE-unique.2254.length.541, NODE-unique.2265.length.538, NODE-unique.2277.length.535,<br/>             NODE-unique.2295.length.530, NODE-unique.2324.length.524, NODE-unique.2332.length.521,<br/>             NODE-unique.2341.length.519, NODE-unique.2343.length.519, NODE-unique.2359.length.515,<br/>             NODE-unique.2360.length.514, NODE-unique.2380.length.510, NODE-unique.2386.length.510,<br/>             NODE-unique.2391.length.508, NODE-unique.2413.length.504, NODE-unique.2414.length.504           </p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 55 | <p>             NODE-unique.1.length.160136, NODE-unique.2.length.152597, NODE-unique.6.length.119815,<br/>             NODE-unique.9.length.110184, NODE-unique.10.length.100626, NODE-unique.11.length.95414,<br/>             NODE-unique.14.length.83778, NODE-unique.18.length.70473, NODE-unique.19.length.67126,<br/>             NODE-unique.25.length.63300, NODE-unique.29.length.59873, NODE-unique.36.length.53397,<br/>             NODE-unique.37.length.53301, NODE-unique.38.length.53239, NODE-unique.44.length.50142,<br/>             NODE-unique.45.length.48225, NODE-unique.46.length.47975, NODE-unique.47.length.47602,<br/>             NODE-unique.51.length.46221, NODE-unique.52.length.46002, NODE-unique.54.length.44928,<br/>             NODE-unique.59.length.42727, NODE-unique.75.length.37032, NODE-unique.77.length.36317,<br/>             NODE-unique.116.length.27892, NODE-unique.124.length.27035, NODE-unique.126.length.26772,<br/>             NODE-unique.131.length.25660, NODE-unique.161.length.21878, NODE-unique.163.length.21819,<br/>             NODE-unique.175.length.20270, NODE-unique.179.length.20223, NODE-unique.189.length.18974,<br/>             NODE-unique.195.length.17898, NODE-unique.207.length.16418, NODE-unique.218.length.15397,<br/>             NODE-unique.224.length.14575, NODE-unique.227.length.14385, NODE-unique.234.length.13828,<br/>             NODE-unique.248.length.12831, NODE-unique.269.length.11302, NODE-unique.272.length.11211,<br/>             NODE-unique.277.length.10950, NODE-unique.293.length.10053, NODE-unique.294.length.10005,<br/>             NODE-unique.304.length.9466, NODE-unique.315.length.8818, NODE-unique.330.length.7932,<br/>             NODE-unique.331.length.7919, NODE-unique.338.length.7522, NODE-unique.340.length.7443,<br/>             NODE-unique.363.length.6557, NODE-unique.372.length.6217, NODE-unique.388.length.5772,<br/>             NODE-unique.397.length.5525, NODE-unique.401.length.5370, NODE-unique.403.length.5357,<br/>             NODE-unique.406.length.5313, NODE-unique.417.length.5107, NODE-unique.418.length.5093,<br/>             NODE-unique.419.length.5068, NODE-unique.428.length.4837, NODE-unique.433.length.4778,<br/>             NODE-unique.437.length.4693, NODE-unique.438.length.4620, NODE-unique.444.length.4516,<br/>             NODE-unique.446.length.4469, NODE-unique.447.length.4461, NODE-unique.449.length.4457,<br/>             NODE-unique.454.length.4346, NODE-unique.461.length.4249, NODE-unique.463.length.4226,<br/>             NODE-unique.465.length.4191, NODE-unique.467.length.4187, NODE-unique.469.length.4151,<br/>             NODE-unique.485.length.3793, NODE-unique.494.length.3709, NODE-unique.497.length.3665,<br/>             NODE-unique.502.length.3604, NODE-unique.505.length.3584, NODE-unique.506.length.3581,<br/>             NODE-unique.519.length.3327, NODE-unique.526.length.3258, NODE-unique.528.length.3225,<br/>             NODE-unique.535.length.3140, NODE-unique.538.length.3070, NODE-unique.539.length.3034,<br/>             NODE-unique.542.length.2996, NODE-unique.552.length.2871, NODE-unique.553.length.2870,<br/>             NODE-unique.554.length.2865, NODE-unique.559.length.2820, NODE-unique.564.length.2788,<br/>             NODE-unique.569.length.2743, NODE-unique.578.length.2696, NODE-unique.580.length.2691,<br/>             NODE-unique.585.length.2655, NODE-unique.589.length.2643, NODE-unique.599.length.2554,<br/>             NODE-unique.601.length.2549, NODE-unique.608.length.2511, NODE-unique.611.length.2504,<br/>             NODE-unique.612.length.2497, NODE-unique.614.length.2480, NODE-unique.616.length.2469,<br/>             NODE-unique.628.length.2362, NODE-unique.629.length.2362, NODE-unique.659.length.2217,<br/>             NODE-unique.664.length.2200, NODE-unique.676.length.2137, NODE-unique.679.length.2108,<br/>             NODE-unique.688.length.2087, NODE-unique.693.length.2050, NODE-unique.697.length.2043,<br/>             NODE-unique.701.length.2008, NODE-unique.702.length.2007, NODE-unique.703.length.2006,<br/>             NODE-unique.705.length.1992, NODE-unique.712.length.1974, NODE-unique.713.length.1972,<br/>             NODE-unique.718.length.1956, NODE-unique.727.length.1905, NODE-unique.732.length.1890,<br/>             NODE-unique.734.length.1885, NODE-unique.741.length.1858, NODE-unique.742.length.1857,<br/>             NODE-unique.768.length.1763, NODE-unique.773.length.1754, NODE-unique.777.length.1739,<br/>             NODE-unique.782.length.1729, NODE-unique.789.length.1708, NODE-unique.794.length.1694,<br/>             NODE-unique.798.length.1686, NODE-unique.803.length.1673, NODE-unique.812.length.1649,<br/>             NODE-unique.819.length.1631, NODE-unique.832.length.1587, NODE-unique.833.length.1586,<br/>             NODE-unique.834.length.1584, NODE-unique.835.length.1580, NODE-unique.836.length.1578,<br/>             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NODE-unique.997.length.1316,<br/>             NODE-unique.998.length.1315, NODE-unique.1010.length.1295, NODE-unique.1014.length.1291,<br/>             NODE-unique.1016.length.1283, NODE-unique.1025.length.1264, NODE-unique.1027.length.1259,<br/>             NODE-unique.1038.length.1248, NODE-unique.1049.length.1228, NODE-unique.1055.length.1220,<br/>             NODE-unique.1077.length.1200, NODE-unique.1089.length.1188, NODE-unique.1091.length.1187,<br/>             NODE-unique.1093.length.1184, NODE-unique.1101.length.1170, NODE-unique.1111.length.1160,<br/>             NODE-unique.1112.length.1159, NODE-unique.1114.length.1158, NODE-unique.1120.length.1153,           </p> |

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|    | <p>             NODE-unique.1127.length.1148, NODE-unique.1131.length.1143, NODE-unique.1133.length.1142,<br/>             NODE-unique.1138.length.1138, NODE-unique.1144.length.1132, NODE-unique.1158.length.1112,<br/>             NODE-unique.1163.length.1105, NODE-unique.1170.length.1102, NODE-unique.1172.length.1099,<br/>             NODE-unique.1183.length.1087, NODE-unique.1186.length.1085, NODE-unique.1197.length.1074,<br/>             NODE-unique.1211.length.1063, NODE-unique.1212.length.1063, NODE-unique.1226.length.1052,<br/>             NODE-unique.1228.length.1051, NODE-unique.1243.length.1034, NODE-unique.1260.length.1017,<br/>             NODE-unique.1264.length.1013, NODE-unique.1265.length.1012, NODE-unique.1269.length.1008,<br/>             NODE-unique.1276.length.1003, NODE-unique.1281.length.991, NODE-unique.1287.length.982,<br/>             NODE-unique.1300.length.972, NODE-unique.1305.length.970, NODE-unique.1306.length.969,<br/>             NODE-unique.1310.length.967, NODE-unique.1322.length.949, NODE-unique.1328.length.942,<br/>             NODE-unique.1330.length.941, NODE-unique.1332.length.939, NODE-unique.1351.length.906,<br/>             NODE-unique.1353.length.904, NODE-unique.1355.length.903, NODE-unique.1365.length.898,<br/>             NODE-unique.1402.length.875, NODE-unique.1409.length.870, NODE-unique.1412.length.868,<br/>             NODE-unique.1413.length.867, NODE-unique.1422.length.861, NODE-unique.1429.length.855,<br/>             NODE-unique.1431.length.853, NODE-unique.1445.length.842, NODE-unique.1447.length.842,<br/>             NODE-unique.1472.length.824, NODE-unique.1473.length.824, NODE-unique.1479.length.819,<br/>             NODE-unique.1483.length.817, NODE-unique.1485.length.815, NODE-unique.1486.length.813,<br/>             NODE-unique.1490.length.810, NODE-unique.1513.length.793, NODE-unique.1516.length.791,<br/>             NODE-unique.1518.length.789, NODE-unique.1527.length.784, NODE-unique.1530.length.784,<br/>             NODE-unique.1536.length.780, NODE-unique.1547.length.774, NODE-unique.1553.length.773,<br/>             NODE-unique.1555.length.773, NODE-unique.1558.length.772, NODE-unique.1576.length.764,<br/>             NODE-unique.1581.length.761, NODE-unique.1601.length.750, NODE-unique.1606.length.746,<br/>             NODE-unique.1617.length.736, NODE-unique.1622.length.735, NODE-unique.1624.length.734,<br/>             NODE-unique.1637.length.729, NODE-unique.1664.length.718, NODE-unique.1672.length.713,<br/>             NODE-unique.1674.length.713, NODE-unique.1676.length.713, NODE-unique.1679.length.712,<br/>             NODE-unique.1701.length.702, NODE-unique.1706.length.701, NODE-unique.1714.length.698,<br/>             NODE-unique.1738.length.684, NODE-unique.1740.length.683, NODE-unique.1750.length.679,<br/>             NODE-unique.1760.length.676, NODE-unique.1765.length.675, NODE-unique.1768.length.673,<br/>             NODE-unique.1770.length.673, NODE-unique.1771.length.673, NODE-unique.1785.length.668,<br/>             NODE-unique.1786.length.667, NODE-unique.1788.length.667, NODE-unique.1794.length.664,<br/>             NODE-unique.1828.length.653, NODE-unique.1829.length.652, NODE-unique.1835.length.651,<br/>             NODE-unique.1837.length.651, NODE-unique.1838.length.651, NODE-unique.1843.length.649,<br/>             NODE-unique.1849.length.644, NODE-unique.1855.length.643, NODE-unique.1865.length.641,<br/>             NODE-unique.1874.length.637, NODE-unique.1878.length.635, NODE-unique.1884.length.633,<br/>             NODE-unique.1889.length.632, NODE-unique.1900.length.628, NODE-unique.1911.length.626,<br/>             NODE-unique.1914.length.625, NODE-unique.1939.length.618, NODE-unique.1944.length.617,<br/>             NODE-unique.1945.length.616, NODE-unique.1962.length.612, NODE-unique.1963.length.612,<br/>             NODE-unique.1974.length.608, NODE-unique.1975.length.607, NODE-unique.1978.length.606,<br/>             NODE-unique.1980.length.606, NODE-unique.1992.length.603, NODE-unique.2001.length.599,<br/>             NODE-unique.2005.length.598, NODE-unique.2012.length.597, NODE-unique.2019.length.595,<br/>             NODE-unique.2020.length.595, NODE-unique.2035.length.592, NODE-unique.2042.length.591,<br/>             NODE-unique.2046.length.590, NODE-unique.2048.length.590, NODE-unique.2052.length.589,<br/>             NODE-unique.2069.length.586, NODE-unique.2078.length.584, NODE-unique.2081.length.583,<br/>             NODE-unique.2086.length.582, NODE-unique.2094.length.580, NODE-unique.2097.length.579,<br/>             NODE-unique.2098.length.579, NODE-unique.2100.length.578, NODE-unique.2120.length.573,<br/>             NODE-unique.2121.length.573, NODE-unique.2134.length.570, NODE-unique.2144.length.568,<br/>             NODE-unique.2151.length.567, NODE-unique.2153.length.567, NODE-unique.2157.length.565,<br/>             NODE-unique.2168.length.562, NODE-unique.2177.length.560, NODE-unique.2184.length.559,<br/>             NODE-unique.2199.length.553, NODE-unique.2203.length.552, NODE-unique.2214.length.551,<br/>             NODE-unique.2219.length.548, NODE-unique.2232.length.545, NODE-unique.2241.length.543,<br/>             NODE-unique.2245.length.543, NODE-unique.2248.length.542, NODE-unique.2252.length.542,<br/>             NODE-unique.2267.length.537, NODE-unique.2274.length.535, NODE-unique.2298.length.529,<br/>             NODE-unique.2305.length.528, NODE-unique.2313.length.527, NODE-unique.2322.length.525,<br/>             NODE-unique.2329.length.524, NODE-unique.2342.length.519, NODE-unique.2365.length.513,<br/>             NODE-unique.2381.length.510, NODE-unique.2390.length.508, NODE-unique.2401.length.507,<br/>             NODE-unique.2406.length.506, NODE-unique.2416.length.503, NODE-unique.2420.length.503,<br/>             NODE-unique.2426.length.501, NODE-unique.2427.length.501, NODE-unique.2430.length.501           </p> |
| 60 | <p>             NODE-unique.606.length.2516, NODE-unique.635.length.2337, NODE-unique.655.length.2244,<br/>             NODE-unique.730.length.1894, NODE-unique.757.length.1804, NODE-unique.923.length.1417,<br/>             NODE-unique.934.length.1397, NODE-unique.963.length.1364, NODE-unique.1005.length.1300,<br/>             NODE-unique.1126.length.1148, NODE-unique.1194.length.1075, NODE-unique.1258.length.1017,<br/>             NODE-unique.1290.length.980, NODE-unique.1296.length.975, NODE-unique.1304.length.970,<br/>             NODE-unique.1307.length.968, NODE-unique.1314.length.963, NODE-unique.1394.length.882,<br/>             NODE-unique.1433.length.852, NODE-unique.1439.length.846, NODE-unique.1442.length.844,<br/>             NODE-unique.1449.length.840, NODE-unique.1678.length.712, NODE-unique.1685.length.707,<br/>             NODE-unique.1694.length.705, NODE-unique.1718.length.695, NODE-unique.1722.length.694,<br/>             NODE-unique.1783.length.669, NODE-unique.1796.length.663, NODE-unique.1877.length.635,<br/>             NODE-unique.1919.length.623, NODE-unique.1964.length.610, NODE-unique.1994.length.603,<br/>             NODE-unique.2018.length.595, NODE-unique.2113.length.575, NODE-unique.2135.length.570,<br/>             NODE-unique.2167.length.562, NODE-unique.2169.length.561, NODE-unique.2185.length.558,<br/>             NODE-unique.2189.length.557, NODE-unique.2209.length.551, NODE-unique.2220.length.548,<br/>             NODE-unique.2255.length.540, NODE-unique.2269.length.537, NODE-unique.2356.length.515,<br/>             NODE-unique.2367.length.513, NODE-unique.2371.length.513, NODE-unique.2407.length.506           </p>                                                                                                                                                                                                                                                                                                                  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| 65 | <p>             NODE-unique.2330.length.523           </p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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List of the top contig megablast hits against potential reagent and process contaminants.

| Organism                                                                                                | Pct Align   | Pct Id           | Contig Name                                                                                |
|---------------------------------------------------------------------------------------------------------|-------------|------------------|--------------------------------------------------------------------------------------------|
| <i>Pseudomonas fluorescens</i> _Pf-5_chromosome,_complete_<br>genome_5s,_16s,_23s_masked                | 0<br>0      | 100<br>100       | NODE-unique_2_length_152597<br>NODE-unique_75_length_37032                                 |
| <i>Pseudomonas mendocina</i> _ymp,_complete_genome_5s,_16s<br>,_23s_masked                              | 8<br>0<br>0 | 100<br>100<br>98 | NODE-unique_1567_length_769<br>NODE-unique_38_length_53239<br>NODE-unique_173_length_20536 |
| <i>Pseudomonas putida</i> _KT2440_chromosome,_complete_gen<br>ome_5s,_16s,_23s_masked                   | 0<br>0      | 100<br>98        | NODE-unique_52_length_46002<br>NODE-unique_77_length_36317                                 |
| <i>Pseudomonas stutzeri</i> _A1501,_complete_genome_5s,_16<br>s,_23s_masked                             | 0<br>0      | 100<br>98        | NODE-unique_37_length_53301<br>NODE-unique_47_length_47602                                 |
| <i>Pseudomonas syringae</i> _pv._phaseolicola_1448A_chromo<br>some,_complete_genome_5s,_16s,_23s_masked | 0           | 98               | NODE-unique_29_length_59873                                                                |