|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Cross | Retained progeny for QTL analysis | Growth rate (22°C) | Growth rate (15°C) | Temperature sensitivity | Yeast/hyphae (22°C) a | Yeast/hyphae (15°C) a |
| 3D1 x 3D7 | 1.1 | NA | NA | NA | NA | 0 |
| 3D1 x 3D7 | 1.2 | 0.406644517 | 0.342815475 | 1.186190667 | 0 | 0 |
| 3D1 x 3D7 | 10.1 | NA | NA | NA | 1 | 0 |
| 3D1 x 3D7 | 100.1 | 0.29786234 | 0.260616992 | 1.142912201 | 0 | 0 |
| 3D1 x 3D7 | 100.2 | 0.606077056 | NA | NA | NA | NA |
| 3D1 x 3D7 | 101.2 | 0.495770046 | 0.429458094 | 1.154408434 | NA | 0 |
| 3D1 x 3D7 | 102.1 | 0.250641969 | 0.207132414 | 1.210056716 | 0 | NA |
| 3D1 x 3D7 | 102.2 | 0.566641122 | 0.522758076 | 1.083945228 | 1 | 1 |
| 3D1 x 3D7 | 103.1 | 0.328973769 | 0.364346247 | 0.90291521 | 0 | NA |
| 3D1 x 3D7 | 104.1 | 0.340847502 | 0.280874791 | 1.213521159 | 0 | 0 |
| 3D1 x 3D7 | 104.2 | 0.45552374 | 0.406642765 | 1.120206184 | 1 | NA |
| 3D1 x 3D7 | 105.1 | 0.364083821 | 0.274134415 | 1.328121542 | 0 | 0 |
| 3D1 x 3D7 | 105.2 | 0.444067669 | 0.379905118 | 1.168890988 | 1 | 1 |
| 3D1 x 3D7 | 106.1 | 0.259157593 | 0.233931289 | 1.107836381 | 0 | 0 |
| 3D1 x 3D7 | 106.2 | 0.340098695 | 0.284518845 | 1.195346816 | NA | 0 |
| 3D1 x 3D7 | 107.1 | 0.32595047 | 0.202800106 | 1.607249996 | 0 | 0 |
| 3D1 x 3D7 | 108.1 | 0.308000507 | 0.243801121 | 1.263326868 | 0 | 0 |
| 3D1 x 3D7 | 108.2 | 0.488546101 | 0.387245709 | 1.261592033 | 1 | 0 |
| 3D1 x 3D7 | 109.1 | 0.361715249 | 0.208861372 | 1.73184369 | NA | 0 |
| 3D1 x 3D7 | 109.2 | 0.38989845 | 0.274274703 | 1.421561835 | NA | 0 |
| 3D1 x 3D7 | 11.1 | 0.5239504 | 0.504987383 | 1.037551468 | 1 | 1 |
| 3D1 x 3D7 | 11.2 | NA | NA | NA | 1 | 1 |
| 3D1 x 3D7 | 110.1 | 0.339995279 | 0.280525729 | 1.211993211 | 0 | 0 |
| 3D1 x 3D7 | 110.2 | 0.52884388 | NA | NA | 0 | NA |
| 3D1 x 3D7 | 111.2 | 0.372288755 | 0.226514091 | 1.643556714 | 0 | 0 |
| 3D1 x 3D7 | 112.1 | 0.357436718 | 0.316434035 | 1.129577349 | NA | 0 |
| 3D1 x 3D7 | 113.1 | 0.430400224 | 0.342025272 | 1.258387199 | 0 | 0 |
| 3D1 x 3D7 | 113.2 | 0.466656427 | 0.447454306 | 1.04291415 | 1 | 1 |
| 3D1 x 3D7 | 114.1 | 0.410256356 | 0.26417328 | 1.552982028 | 0 | 0 |
| 3D1 x 3D7 | 114.2 | 0.444697808 | 0.391397185 | 1.136180396 | NA | NA |
| 3D1 x 3D7 | 115.1 | 0.299606432 | 0.288486203 | 1.038546832 | 0 | 0 |
| 3D1 x 3D7 | 116.1 | 0.509011395 | 0.393522115 | 1.293475959 | NA | 0 |
| 3D1 x 3D7 | 116.2 | 0.340402836 | 0.237047467 | 1.43601128 | 0 | 0 |
| 3D1 x 3D7 | 117.1 | 0.330188699 | 0.264572657 | 1.248007646 | 0 | 0 |
| 3D1 x 3D7 | 117.2 | 0.347679013 | 0.354870972 | 0.979733592 | 0 | 0 |
| 3D1 x 3D7 | 118.1 | 0.456702817 | 0.32687023 | 1.397199177 | 1 | 0 |
| 3D1 x 3D7 | 118.2 | 0.524602341 | 0.319505549 | 1.641919342 | 1 | 0 |
| 3D1 x 3D7 | 119.1 | 0.606711258 | 0.447955528 | 1.354400648 | 1 | 1 |
| 3D1 x 3D7 | 119.2 | 0.462039474 | 0.377863365 | 1.222768643 | 1 | NA |
| 3D1 x 3D7 | 12.1 | 0.298433179 | 0.273393755 | 1.091587405 | 0 | 0 |
| 3D1 x 3D7 | 120.1 | 0.452352341 | 0.40480887 | 1.117446715 | 1 | 1 |
| 3D1 x 3D7 | 120.2 | 0.418083163 | 0.320159453 | 1.305859187 | NA | 0 |
| 3D1 x 3D7 | 121.2 | 0.323708547 | 0.292921084 | 1.105104976 | 0 | 0 |
| 3D1 x 3D7 | 122.1 | 0.457641653 | 0.403288656 | 1.134774425 | 0 | 0 |
| 3D1 x 3D7 | 123.1 | NA | NA | NA | 1 | 0 |
| 3D1 x 3D7 | 125.1 | 0.292661762 | 0.246035061 | 1.189512423 | NA | 0 |
| 3D1 x 3D7 | 126.1 | 0.269348948 | 0.160871669 | 1.674309401 | NA | 0 |
| 3D1 x 3D7 | 127.1 | 0.573611429 | 0.453019335 | 1.266196352 | 1 | 1 |
| 3D1 x 3D7 | 127.2 | 0.471723531 | 0.375874391 | 1.255003115 | 1 | 0 |
| 3D1 x 3D7 | 128.1 | NA | NA | NA | 1 | 0 |
| 3D1 x 3D7 | 128.2 | 0.38828956 | 0.387854072 | 1.001122815 | NA | 1 |
| 3D1 x 3D7 | 129.2 | 0.514236366 | 0.443327188 | 1.15994773 | 1 | 1 |
| 3D1 x 3D7 | 13.1 | 0.389389071 | 0.238466474 | 1.632888116 | 0 | 0 |
| 3D1 x 3D7 | 130.1 | 0.382400475 | 0.249735584 | 1.531221418 | 0 | 0 |
| 3D1 x 3D7 | 131.1 | 0.456644412 | 0.265639749 | 1.719036449 | 1 | 0 |
| 3D1 x 3D7 | 133.1 | 0.378417727 | 0.230840863 | 1.6393013 | 0 | 0 |
| 3D1 x 3D7 | 134.1 | 0.55729434 | 0.292038333 | 1.908291746 | 1 | 0 |
| 3D1 x 3D7 | 135.2 | 0.463539975 | 0.398253883 | 1.163930838 | 1 | 1 |
| 3D1 x 3D7 | 136.1 | 0.399781063 | 0.280973872 | 1.422840711 | 1 | 0 |
| 3D1 x 3D7 | 137.1 | 0.36404594 | 0.346982358 | 1.04917709 | NA | 0 |
| 3D1 x 3D7 | 137.2 | 0.542699856 | 0.44994951 | 1.206135009 | 1 | 0 |
| 3D1 x 3D7 | 138.1 | 0.402082665 | 0.401958453 | 1.000309017 | 0 | 0 |
| 3D1 x 3D7 | 139.2 | 0.443585084 | 0.325454957 | 1.362969203 | 0 | 0 |
| 3D1 x 3D7 | 14.1 | NA | NA | NA | 0 | 0 |
| 3D1 x 3D7 | 141.1 | 0.29981085 | 0.311424921 | 0.962706675 | NA | 0 |
| 3D1 x 3D7 | 142.1 | 0.45079568 | 0.392984466 | 1.14710814 | NA | 0 |
| 3D1 x 3D7 | 142.2 | 0.505579728 | 0.381804835 | 1.324183672 | 0 | 0 |
| 3D1 x 3D7 | 143.1 | 0.417849179 | 0.404679963 | 1.032542299 | NA | 0 |
| 3D1 x 3D7 | 144.1 | 0.300439613 | 0.225098347 | 1.334703771 | 0 | 0 |
| 3D1 x 3D7 | 145.1 | 0.37493814 | 0.24631371 | 1.522197609 | 0 | 0 |
| 3D1 x 3D7 | 145.2 | 0.336924835 | 0.367469128 | 0.916879294 | 1 | 0 |
| 3D1 x 3D7 | 146.1 | 0.397909751 | 0.340124368 | 1.169894863 | NA | 1 |
| 3D1 x 3D7 | 146.2 | 0.514117368 | 0.343216703 | 1.497938076 | 1 | 0 |
| 3D1 x 3D7 | 147.1 | 0.492488864 | 0.418090438 | 1.177948167 | 1 | 1 |
| 3D1 x 3D7 | 148.1 | 0.544643725 | 0.316428663 | 1.721221209 | 0 | 0 |
| 3D1 x 3D7 | 149.1 | 0.478869194 | 0.317597415 | 1.507786815 | 0 | 0 |
| 3D1 x 3D7 | 149.2 | 0.445530117 | 0.347673434 | 1.28146149 | 0 | 0 |
| 3D1 x 3D7 | 15.1 | NA | NA | NA | 1 | 1 |
| 3D1 x 3D7 | 15.2 | NA | NA | NA | NA | 1 |
| 3D1 x 3D7 | 150.1 | 0.420168626 | 0.33014696 | 1.272671498 | 1 | 0 |
| 3D1 x 3D7 | 150.2 | 0.36945829 | 0.372301759 | 0.992362462 | 0 | 0 |
| 3D1 x 3D7 | 151.1 | 0.401683888 | 0.379418657 | 1.05868249 | 1 | 1 |
| 3D1 x 3D7 | 152.1 | 0.50348707 | 0.307305778 | 1.638391163 | 1 | 0 |
| 3D1 x 3D7 | 152.2 | 0.390889258 | 0.26811763 | 1.457902111 | 0 | 0 |
| 3D1 x 3D7 | 154.1 | 0.341536595 | 0.277166026 | 1.232245526 | 1 | 1 |
| 3D1 x 3D7 | 154.2 | 0.317276337 | 0.215340454 | 1.473370804 | 1 | 0 |
| 3D1 x 3D7 | 155.1 | 0.419943575 | 0.333178901 | 1.260414669 | 0 | 0 |
| 3D1 x 3D7 | 156.1 | 0.392132136 | 0.367396126 | 1.067327901 | NA | 0 |
| 3D1 x 3D7 | 157.1 | 0.342072739 | 0.312471726 | 1.094731813 | 1 | 1 |
| 3D1 x 3D7 | 158.1 | 0.439130851 | 0.346797335 | 1.266246325 | 0 | 0 |
| 3D1 x 3D7 | 158.2 | 0.349774377 | 0.249856232 | 1.399902556 | 0 | 0 |
| 3D1 x 3D7 | 159.1 | 0.324485777 | 0.28152323 | 1.152607466 | 0 | 0 |
| 3D1 x 3D7 | 16.1 | 0.501428726 | 0.369386691 | 1.357462894 | 1 | 0 |
| 3D1 x 3D7 | 160.1 | 0.410992991 | 0.375123316 | 1.095621023 | 1 | 1 |
| 3D1 x 3D7 | 160.2 | 0.402491167 | 0.351833769 | 1.143981057 | 0 | 0 |
| 3D1 x 3D7 | 161.1 | 0.372262374 | 0.350407531 | 1.062369787 | 1 | 1 |
| 3D1 x 3D7 | 161.2 | 0.557502419 | 0.388159351 | 1.436272033 | 1 | 1 |
| 3D1 x 3D7 | 162.1 | 0.234813598 | 0.21080024 | 1.113915231 | NA | 0 |
| 3D1 x 3D7 | 162.2 | 0.516904668 | 0.413822062 | 1.249098867 | 1 | 1 |
| 3D1 x 3D7 | 163.1 | 0.326962517 | 0.31019746 | 1.054046403 | 1 | 1 |
| 3D1 x 3D7 | 164.1 | 0.252619433 | 0.182542799 | 1.38389153 | 0 | 0 |
| 3D1 x 3D7 | 164.2 | 0.464501593 | 0.357423508 | 1.299583218 | NA | NA |
| 3D1 x 3D7 | 165.1 | 0.452274844 | 0.363316304 | 1.244851493 | 0 | 0 |
| 3D1 x 3D7 | 165.2 | 0.303539309 | 0.221802989 | 1.36850865 | 0 | 0 |
| 3D1 x 3D7 | 166.1 | 0.323551442 | 0.223621402 | 1.446871541 | 0 | 0 |
| 3D1 x 3D7 | 167.1 | 0.632405527 | 0.497366929 | 1.27150699 | 1 | 1 |
| 3D1 x 3D7 | 167.2 | 0.230964725 | 0.18979445 | 1.216920332 | 0 | 0 |
| 3D1 x 3D7 | 168.1 | 0.296120964 | 0.286592334 | 1.033248028 | 0 | 0 |
| 3D1 x 3D7 | 169.1 | 0.461010853 | 0.386032459 | 1.194228212 | 1 | NA |
| 3D1 x 3D7 | 169.2 | 0.478700544 | 0.270222792 | 1.77150321 | 1 | 0 |
| 3D1 x 3D7 | 17.2 | NA | NA | NA | 1 | 0 |
| 3D1 x 3D7 | 170.1 | 0.311915878 | 0.286876946 | 1.087281087 | 0 | 0 |
| 3D1 x 3D7 | 170.2 | 0.228623499 | 0.228467631 | 1.000682229 | 0 | 0 |
| 3D1 x 3D7 | 171.1 | 0.489495978 | 0.408890607 | 1.197131874 | 0 | NA |
| 3D1 x 3D7 | 172.1 | 0.420417823 | 0.425409667 | 0.988265796 | 0 | 0 |
| 3D1 x 3D7 | 173.1 | 0.510624002 | 0.420750968 | 1.213601492 | 1 | 0 |
| 3D1 x 3D7 | 174.1 | 0.359584739 | NA | NA | 0 | 0 |
| 3D1 x 3D7 | 174.2 | 0.566778268 | 0.378334798 | 1.498086538 | 1 | 1 |
| 3D1 x 3D7 | 175.1 | 0.458540584 | 0.288761238 | 1.587957539 | 0 | 0 |
| 3D1 x 3D7 | 176.2 | 0.498283034 | 0.230816373 | 2.158785477 | 0 | 0 |
| 3D1 x 3D7 | 177.2 | 0.500602604 | 0.391623548 | 1.278275035 | 1 | 0 |
| 3D1 x 3D7 | 178.1 | NA | NA | NA | NA | 0 |
| 3D1 x 3D7 | 179.1 | 0.39837918 | 0.275893796 | 1.443958458 | 0 | 0 |
| 3D1 x 3D7 | 179.2 | 0.406659707 | 0.328415037 | 1.238249354 | 0 | 0 |
| 3D1 x 3D7 | 18.1 | NA | NA | NA | 1 | 0 |
| 3D1 x 3D7 | 18.2 | NA | NA | NA | NA | 0 |
| 3D1 x 3D7 | 180.1 | 0.521776118 | 0.388084283 | 1.344491754 | 0 | 0 |
| 3D1 x 3D7 | 180.2 | 0.605638557 | 0.436937405 | 1.386099132 | 1 | 1 |
| 3D1 x 3D7 | 181.1 | 0.633997443 | 0.391148877 | 1.620859681 | 1 | NA |
| 3D1 x 3D7 | 181.2 | 0.466035015 | 0.314369461 | 1.482443664 | 1 | 0 |
| 3D1 x 3D7 | 182.1 | 0.400685768 | 0.243544763 | 1.645224325 | 0 | 0 |
| 3D1 x 3D7 | 183.1 | NA | NA | NA | NA | NA |
| 3D1 x 3D7 | 184.1 | NA | NA | NA | NA | NA |
| 3D1 x 3D7 | 185.1 | NA | NA | NA | NA | NA |
| 3D1 x 3D7 | 19.1 | 0.448973569 | 0.341086443 | 1.316304352 | 0 | 0 |
| 3D1 x 3D7 | 19.2 | NA | NA | NA | 1 | 1 |
| 3D1 x 3D7 | 2.1 | 0.323729135 | 0.303010055 | 1.068377533 | 0 | 0 |
| 3D1 x 3D7 | 20.1 | 0.483606233 | 0.309355881 | 1.56326827 | 0 | 0 |
| 3D1 x 3D7 | 20.2 | NA | 0.345200266 | NA | 1 | 0 |
| 3D1 x 3D7 | 21.1 | 0.324920257 | 0.375530001 | 0.865231156 | 1 | 0 |
| 3D1 x 3D7 | 21.2 | 0.220737637 | 0.188915932 | 1.168443735 | 0 | 0 |
| 3D1 x 3D7 | 22.1 | 0.411199919 | 0.359527571 | 1.143722907 | 0 | NA |
| 3D1 x 3D7 | 22.2 | 0.4649716 | 0.28988254 | 1.604000022 | 1 | 0 |
| 3D1 x 3D7 | 23.1 | 0.43730722 | 0.307137713 | 1.423814796 | 1 | 0 |
| 3D1 x 3D7 | 23.2 | 0.292720682 | 0.347818282 | 0.841590845 | NA | 0 |
| 3D1 x 3D7 | 24.1 | 0.520438964 | 0.344110852 | 1.512416595 | 1 | 0 |
| 3D1 x 3D7 | 24.2 | 0.407494963 | 0.36013896 | 1.131493696 | 0 | 0 |
| 3D1 x 3D7 | 25.1 | 0.425862163 | 0.356688256 | 1.193933793 | 1 | 0 |
| 3D1 x 3D7 | 26.1 | 0.414454989 | 0.233158913 | 1.777564423 | NA | 0 |
| 3D1 x 3D7 | 26.2 | 0.402324791 | 0.331981523 | 1.211889106 | 0 | NA |
| 3D1 x 3D7 | 27.1 | 0.525247795 | 0.334705691 | 1.569282533 | NA | 1 |
| 3D1 x 3D7 | 28.1 | 0.282121185 | 0.231898436 | 1.216572178 | 0 | 0 |
| 3D1 x 3D7 | 29.1 | 0.49051787 | 0.391356335 | 1.253379147 | 0 | 0 |
| 3D1 x 3D7 | 3.1 | 0.379653696 | 0.478695055 | 0.793101355 | 1 | 1 |
| 3D1 x 3D7 | 3.2 | NA | NA | NA | 0 | 0 |
| 3D1 x 3D7 | 30.1 | 0.330363488 | 0.232745396 | 1.419420082 | 0 | 0 |
| 3D1 x 3D7 | 31.1 | 0.482113656 | 0.427593969 | 1.127503405 | 1 | 1 |
| 3D1 x 3D7 | 32.1 | 0.327301581 | 0.183961052 | 1.779189553 | NA | 0 |
| 3D1 x 3D7 | 33.1 | 0.510899625 | 0.429981354 | 1.188190186 | 1 | 0 |
| 3D1 x 3D7 | 34.1 | 0.416797179 | 0.400684511 | 1.040212855 | 1 | 1 |
| 3D1 x 3D7 | 34.2 | 0.406725654 | 0.216411009 | 1.879412952 | 0 | 0 |
| 3D1 x 3D7 | 35.1 | 0.236371387 | 0.196335113 | 1.203918054 | 0 | 0 |
| 3D1 x 3D7 | 35.2 | 0.324775929 | 0.351439888 | 0.924129389 | 1 | NA |
| 3D1 x 3D7 | 36.1 | 0.539581899 | 0.389996105 | 1.383557148 | NA | 0 |
| 3D1 x 3D7 | 37.1 | 0.348147056 | 0.203572278 | 1.710188932 | NA | 0 |
| 3D1 x 3D7 | 37.2 | 0.50140067 | 0.432774062 | 1.158573756 | 1 | 1 |
| 3D1 x 3D7 | 38.1 | NA | NA | NA | NA | 0 |
| 3D1 x 3D7 | 39.1 | NA | NA | NA | NA | 0 |
| 3D1 x 3D7 | 4.1 | NA | NA | NA | 0 | NA |
| 3D1 x 3D7 | 4.2 | NA | NA | NA | 0 | 0 |
| 3D1 x 3D7 | 40.1 | 0.527011741 | 0.381769104 | 1.380446285 | 1 | 0 |
| 3D1 x 3D7 | 40.2 | 0.452305431 | 0.337057779 | 1.34192254 | NA | 0 |
| 3D1 x 3D7 | 41.1 | 0.394472665 | 0.276371985 | 1.427325078 | NA | 0 |
| 3D1 x 3D7 | 41.2 | 0.336747816 | 0.254940184 | 1.320889513 | NA | 0 |
| 3D1 x 3D7 | 42.1 | 0.554500272 | 0.323001945 | 1.716708771 | NA | 0 |
| 3D1 x 3D7 | 42.2 | 0.475028221 | 0.372252405 | 1.276091744 | 1 | 1 |
| 3D1 x 3D7 | 43.1 | 0.327386276 | 0.21704424 | 1.508385002 | 0 | NA |
| 3D1 x 3D7 | 44.1 | 0.360627207 | 0.266495761 | 1.353219301 | 0 | 0 |
| 3D1 x 3D7 | 45.1 | 0.533359091 | 0.359497044 | 1.483625805 | NA | 0 |
| 3D1 x 3D7 | 46.1 | 0.535870106 | 0.262310296 | 2.042886285 | 0 | 0 |
| 3D1 x 3D7 | 46.2 | 0.251300151 | 0.262407828 | 0.957670175 | NA | NA |
| 3D1 x 3D7 | 47.1 | 0.145446529 | NA | NA | NA | 0 |
| 3D1 x 3D7 | 48.1 | 0.38319508 | 0.241028648 | 1.589832092 | 0 | 0 |
| 3D1 x 3D7 | 48.2 | 0.292327592 | 0.332509396 | 0.879155886 | NA | 1 |
| 3D1 x 3D7 | 49.1 | 0.298642355 | 0.291964741 | 1.022871302 | 0 | 0 |
| 3D1 x 3D7 | 49.2 | 0.515587431 | 0.326761446 | 1.577871066 | NA | 0 |
| 3D1 x 3D7 | 5.1 | NA | NA | NA | 1 | 0 |
| 3D1 x 3D7 | 5.2 | 0.452670527 | 0.310266849 | 1.458971619 | NA | 0 |
| 3D1 x 3D7 | 50.1 | 0.461541964 | 0.389908373 | 1.183719037 | NA | 0 |
| 3D1 x 3D7 | 51.1 | 0.441699394 | 0.358920766 | 1.230632041 | 1 | 0 |
| 3D1 x 3D7 | 51.2 | 0.353472475 | 0.20854781 | 1.69492298 | 0 | 0 |
| 3D1 x 3D7 | 52.1 | 0.431236575 | 0.386476183 | 1.115816691 | NA | 1 |
| 3D1 x 3D7 | 52.2 | 0.458100357 | 0.292560986 | 1.565828592 | 0 | 0 |
| 3D1 x 3D7 | 53.2 | 0.267015077 | 0.196034633 | 1.362081144 | 0 | 0 |
| 3D1 x 3D7 | 54.1 | 0.516776827 | 0.429688039 | 1.202679107 | 1 | 1 |
| 3D1 x 3D7 | 55.1 | 0.338883955 | 0.187674613 | 1.805699506 | 0 | 0 |
| 3D1 x 3D7 | 55.2 | 0.429475487 | 0.348423643 | 1.23262441 | 1 | 1 |
| 3D1 x 3D7 | 56.1 | 0.313012901 | 0.347115499 | 0.901754321 | 0 | 0 |
| 3D1 x 3D7 | 56.2 | 0.395890911 | 0.28434248 | 1.39230308 | NA | 0 |
| 3D1 x 3D7 | 57.1 | 0.371810819 | 0.366245543 | 1.015195477 | 1 | 0 |
| 3D1 x 3D7 | 57.2 | 0.445229372 | 0.428570178 | 1.038871567 | 1 | 1 |
| 3D1 x 3D7 | 58.1 | 0.31933781 | 0.224384226 | 1.423174061 | 0 | 0 |
| 3D1 x 3D7 | 59.1 | 0.469265825 | 0.284508588 | 1.649390724 | 0 | 0 |
| 3D1 x 3D7 | 59.2 | 0.363362527 | 0.383066965 | 0.948561375 | 0 | 0 |
| 3D1 x 3D7 | 6.1 | NA | NA | NA | 0 | 0 |
| 3D1 x 3D7 | 60.2 | 0.394385875 | 0.253313644 | 1.556907353 | 0 | 0 |
| 3D1 x 3D7 | 61.1 | 0.340059685 | 0.366973558 | 0.926659911 | 0 | 0 |
| 3D1 x 3D7 | 62.1 | 0.352628244 | 0.368123644 | 0.957907076 | NA | 0 |
| 3D1 x 3D7 | 62.2 | 0.46409886 | 0.372266194 | 1.246685482 | NA | NA |
| 3D1 x 3D7 | 63.1 | 0.438383552 | 0.38494502 | 1.138821205 | NA | 0 |
| 3D1 x 3D7 | 64.1 | NA | NA | NA | 1 | NA |
| 3D1 x 3D7 | 65.1 | 0.520553769 | 0.415134454 | 1.253940171 | 1 | 0 |
| 3D1 x 3D7 | 66.1 | 0.447594316 | 0.359417613 | 1.245332169 | NA | 0 |
| 3D1 x 3D7 | 67.1 | 0.418501206 | 0.301241879 | 1.389253074 | 1 | 1 |
| 3D1 x 3D7 | 68.1 | 0.492871441 | 0.348524668 | 1.414165155 | 0 | 0 |
| 3D1 x 3D7 | 68.2 | 0.50673246 | 0.277951241 | 1.823098393 | 0 | 0 |
| 3D1 x 3D7 | 69.1 | NA | NA | NA | NA | 0 |
| 3D1 x 3D7 | 69.2 | 0.420895126 | 0.246159948 | 1.709844068 | 0 | 0 |
| 3D1 x 3D7 | 7.1 | 0.444960771 | 0.31849397 | 1.397077537 | 1 | 0 |
| 3D1 x 3D7 | 70.1 | 0.379138117 | 0.316716484 | 1.197089939 | 1 | 1 |
| 3D1 x 3D7 | 71.2 | 0.329035701 | 0.227016042 | 1.449394055 | 0 | 0 |
| 3D1 x 3D7 | 72.1 | 0.385410857 | 0.365579346 | 1.054246806 | 1 | 0 |
| 3D1 x 3D7 | 72.2 | 0.310388837 | 0.343601136 | 0.903340544 | 1 | 0 |
| 3D1 x 3D7 | 73.1 | 0.407503132 | 0.406195464 | 1.003219308 | 0 | 0 |
| 3D1 x 3D7 | 74.1 | 0.383385003 | 0.295135431 | 1.299013815 | 0 | 0 |
| 3D1 x 3D7 | 75.1 | 0.442886601 | 0.445510323 | 0.99411075 | 1 | 1 |
| 3D1 x 3D7 | 75.2 | 0.392807786 | 0.379281016 | 1.035664243 | 0 | 0 |
| 3D1 x 3D7 | 76.1 | 0.591228755 | 0.405218454 | 1.459037093 | 1 | 1 |
| 3D1 x 3D7 | 76.2 | 0.369238216 | 0.244982351 | 1.507203333 | 1 | 0 |
| 3D1 x 3D7 | 77.1 | 0.313762406 | 0.213807134 | 1.467502042 | 0 | 0 |
| 3D1 x 3D7 | 78.1 | 0.356733652 | 0.236059554 | 1.511201926 | NA | 0 |
| 3D1 x 3D7 | 79.1 | 0.507723794 | 0.393345845 | 1.290782148 | 0 | 0 |
| 3D1 x 3D7 | 8.1 | 0.293148767 | 0.25462542 | 1.151294192 | 0 | 0 |
| 3D1 x 3D7 | 8.2 | 0.299961444 | 0.174344507 | 1.72050986 | 0 | 0 |
| 3D1 x 3D7 | 80.1 | 0.394595351 | 0.37769029 | 1.044759057 | NA | NA |
| 3D1 x 3D7 | 80.2 | 0.530960152 | 0.461636073 | 1.150170413 | 1 | 1 |
| 3D1 x 3D7 | 82.1 | 0.37657596 | 0.372044616 | 1.012179571 | NA | 0 |
| 3D1 x 3D7 | 82.2 | 0.395523841 | 0.366631265 | 1.078805546 | 1 | 1 |
| 3D1 x 3D7 | 83.1 | 0.350670914 | 0.328280394 | 1.068205474 | NA | 1 |
| 3D1 x 3D7 | 83.2 | 0.423959566 | NA | NA | 0 | NA |
| 3D1 x 3D7 | 84.1 | 0.521050504 | 0.503536267 | 1.034782474 | 1 | 1 |
| 3D1 x 3D7 | 84.2 | 0.336655296 | 0.184431285 | 1.825369784 | 0 | 0 |
| 3D1 x 3D7 | 86.2 | 0.43245547 | 0.415938885 | 1.039709162 | NA | 1 |
| 3D1 x 3D7 | 87.1 | 0.293915788 | 0.369674375 | 0.795066706 | 0 | 0 |
| 3D1 x 3D7 | 88.1 | 0.312445461 | 0.236081097 | 1.323466663 | 0 | 0 |
| 3D1 x 3D7 | 89.1 | 0.346032565 | 0.302494317 | 1.143930795 | 1 | 0 |
| 3D1 x 3D7 | 89.2 | 0.549858735 | 0.405568809 | 1.355771754 | 1 | 1 |
| 3D1 x 3D7 | 9.1 | 0.436563192 | 0.356605977 | 1.224217261 | NA | 0 |
| 3D1 x 3D7 | 90.1 | 0.374246936 | 0.352849316 | 1.060642374 | NA | 0 |
| 3D1 x 3D7 | 91.2 | 0.46762853 | 0.351999125 | 1.328493446 | 1 | 1 |
| 3D1 x 3D7 | 92.1 | 0.351174146 | 0.200017638 | 1.755715896 | 0 | 0 |
| 3D1 x 3D7 | 93.1 | 0.478761314 | 0.368785074 | 1.298212284 | NA | 0 |
| 3D1 x 3D7 | 93.2 | 0.362509414 | 0.245028668 | 1.479457145 | 0 | 0 |
| 3D1 x 3D7 | 94.1 | 0.240089826 | 0.250571754 | 0.958167957 | NA | 1 |
| 3D1 x 3D7 | 94.2 | 0.498089158 | 0.4220134 | 1.180268584 | 1 | 1 |
| 3D1 x 3D7 | 95.1 | 0.338469132 | 0.202023438 | 1.675395368 | 0 | 0 |
| 3D1 x 3D7 | 95.2 | 0.363433326 | 0.321335391 | 1.131009332 | 0 | 0 |
| 3D1 x 3D7 | 96.1 | 0.284897498 | 0.248544758 | 1.146262345 | 0 | NA |
| 3D1 x 3D7 | 96.2 | 0.399124867 | 0.391593134 | 1.019233568 | 0 | 0 |
| 3D1 x 3D7 | 97.1 | 0.383566078 | 0.291771714 | 1.314610225 | 1 | 1 |
| 3D1 x 3D7 | 97.2 | 0.445346525 | 0.404457045 | 1.101097213 | 1 | 0 |
| 3D1 x 3D7 | 98.1 | 0.410501087 | 0.309094449 | 1.328076542 | 0 | 0 |
| 3D1 x 3D7 | 99.1 | NA | NA | NA | 0 | 0 |
| 1A5 x 1E4 | A1.1 | 0.42389102 | 0.362679384 | 1.168776167 | 1 | 0 |
| 1A5 x 1E4 | A10.1 | 0.251383477 | 0.183959058 | 1.366518616 | 0 | 0 |
| 1A5 x 1E4 | A11.1 | 0.456332919 | 0.279851799 | 1.630623497 | 1 | 0 |
| 1A5 x 1E4 | A11.2 | 0.3443407 | 0.327693596 | 1.050800822 | NA | 0 |
| 1A5 x 1E4 | A12.2 | 0.282652913 | 0.179943033 | 1.57079109 | 0 | 0 |
| 1A5 x 1E4 | A13.1 | 0.318291461 | 0.327758192 | 0.97111672 | 0 | 0 |
| 1A5 x 1E4 | A13.2 | 0.312691124 | 0.302783274 | 1.032722581 | NA | 0 |
| 1A5 x 1E4 | A14.1 | 0.239268195 | 0.258293588 | 0.926341984 | 0 | 0 |
| 1A5 x 1E4 | A14.2 | 0.4588759 | 0.328438145 | 1.397145573 | 0 | 0 |
| 1A5 x 1E4 | A16.1 | 0.334646057 | 0.352733612 | 0.948721769 | 0 | 0 |
| 1A5 x 1E4 | A16.2 | 0.462861083 | 0.398041289 | 1.16284691 | NA | 0 |
| 1A5 x 1E4 | A17.1 | 0.228721452 | 0.208630269 | 1.096300419 | 0 | 0 |
| 1A5 x 1E4 | A18.1 | 0.257661548 | 0.257869525 | 0.999193476 | 0 | 0 |
| 1A5 x 1E4 | A18.2 | 0.400244089 | 0.302516865 | 1.32304719 | NA | 0 |
| 1A5 x 1E4 | A19.1 | 0.26885972 | 0.270806248 | 0.992812101 | 0 | 0 |
| 1A5 x 1E4 | A2.2 | 0.474580194 | 0.379367549 | 1.250977303 | NA | 0 |
| 1A5 x 1E4 | A21.1 | 0.28550263 | 0.347168069 | 0.822375833 | 0 | 0 |
| 1A5 x 1E4 | A21.2 | 0.337762075 | 0.283994745 | 1.189325089 | 0 | 0 |
| 1A5 x 1E4 | A22.1 | 0.578550091 | 0.464638031 | 1.245163015 | NA | 0 |
| 1A5 x 1E4 | A22.2 | 0.351458987 | 0.236786563 | 1.484286027 | 0 | 0 |
| 1A5 x 1E4 | A23.1 | 0.32636556 | 0.281869657 | 1.157859856 | 1 | 0 |
| 1A5 x 1E4 | A23.2 | 0.592127275 | 0.380808897 | 1.554919751 | 1 | 0 |
| 1A5 x 1E4 | A24.1 | 0.474633636 | 0.3809867 | 1.245801064 | 1 | 0 |
| 1A5 x 1E4 | A24.2 | 0.624202482 | 0.429039318 | 1.454884102 | NA | 0 |
| 1A5 x 1E4 | A25.1 | 0.376754777 | 0.263400093 | 1.430351723 | NA | 0 |
| 1A5 x 1E4 | A25.2 | 0.540761332 | 0.371150378 | 1.45698715 | NA | 0 |
| 1A5 x 1E4 | A26.1 | 0.33383661 | 0.386013637 | 0.864831129 | 0 | 0 |
| 1A5 x 1E4 | A26.2 | 0.504684095 | 0.318201176 | 1.586053521 | NA | 0 |
| 1A5 x 1E4 | A28.1 | 0.321306248 | 0.259833168 | 1.236586732 | 0 | 0 |
| 1A5 x 1E4 | A29.1 | 0.370382131 | 0.330691157 | 1.120024299 | NA | 0 |
| 1A5 x 1E4 | A3.1 | 0.569628261 | 0.364670425 | 1.562035807 | NA | 0 |
| 1A5 x 1E4 | A3.2 | 0.277788834 | 0.181500923 | 1.530509211 | 0 | 0 |
| 1A5 x 1E4 | A30.1 | 0.381461862 | 0.251773789 | 1.515097593 | 0 | 0 |
| 1A5 x 1E4 | A30.2 | 0.457597209 | 0.254733303 | 1.796377636 | 0 | 0 |
| 1A5 x 1E4 | A31.1 | 0.537490737 | 0.4026851 | 1.334766886 | NA | 0 |
| 1A5 x 1E4 | A32.1 | 0.446382216 | 0.328601498 | 1.358430255 | 0 | 0 |
| 1A5 x 1E4 | A33.1 | 0.40494721 | 0.385933783 | 1.049266034 | NA | NA |
| 1A5 x 1E4 | A33.2 | 0.44402163 | 0.320713135 | 1.38448221 | NA | 0 |
| 1A5 x 1E4 | A35.2 | 0.345610907 | 0.330039708 | 1.047179774 | NA | 0 |
| 1A5 x 1E4 | A36.1 | 0.256052511 | 0.234887894 | 1.090105187 | 0 | 0 |
| 1A5 x 1E4 | A37.1 | 0.318231319 | 0.3315264 | 0.959897368 | NA | 0 |
| 1A5 x 1E4 | A38.1 | 0.33849767 | 0.266598792 | 1.269689436 | 0 | 0 |
| 1A5 x 1E4 | A39.1 | 0.511806618 | 0.38336475 | 1.335038286 | 1 | NA |
| 1A5 x 1E4 | A39.2 | 0.417616084 | 0.371170791 | 1.125131863 | 0 | 0 |
| 1A5 x 1E4 | A4.1 | 0.431195691 | 0.319703339 | 1.348736901 | 1 | 0 |
| 1A5 x 1E4 | A40.1 | 0.280969577 | 0.264935371 | 1.060521198 | 0 | 0 |
| 1A5 x 1E4 | A40.2 | 0.504500444 | 0.37735608 | 1.336934718 | NA | 0 |
| 1A5 x 1E4 | A41.1 | 0.385487078 | 0.288406395 | 1.336610715 | 0 | 0 |
| 1A5 x 1E4 | A42.1 | NA | NA | NA | NA | NA |
| 1A5 x 1E4 | A42.2 | 0.457016201 | 0.335194616 | 1.363435387 | NA | 0 |
| 1A5 x 1E4 | A43.1 | 0.318726494 | 0.391831478 | 0.813427485 | 0 | 0 |
| 1A5 x 1E4 | A43.2 | 0.259209405 | 0.342717159 | 0.756336233 | 0 | 0 |
| 1A5 x 1E4 | A44.1 | 0.40872099 | 0.228628237 | 1.787710019 | NA | 0 |
| 1A5 x 1E4 | A44.2 | 0.414877958 | 0.369619206 | 1.122446969 | NA | 0 |
| 1A5 x 1E4 | A45.1 | 0.602933111 | 0.393350364 | 1.532814421 | 1 | 0 |
| 1A5 x 1E4 | A45.2 | 0.421024899 | 0.328114268 | 1.283165469 | 0 | 0 |
| 1A5 x 1E4 | A46.1 | 0.308664405 | 0.370911048 | 0.832179054 | 0 | 0 |
| 1A5 x 1E4 | A46.2 | 0.445130553 | 0.382209501 | 1.16462451 | 0 | 0 |
| 1A5 x 1E4 | A47.1 | 0.386154201 | 0.395634374 | 0.976038046 | 0 | 0 |
| 1A5 x 1E4 | A47.2 | 0.491748226 | 0.320508995 | 1.534272778 | 0 | 0 |
| 1A5 x 1E4 | A48.1 | 0.4915612 | 0.391750641 | 1.254780845 | 0 | 0 |
| 1A5 x 1E4 | A49.1 | 0.640315675 | 0.336143926 | 1.904885454 | 1 | 0 |
| 1A5 x 1E4 | A5.1 | 0.359255724 | 0.304913553 | 1.178221564 | 1 | 0 |
| 1A5 x 1E4 | A50.2 | 0.46978444 | 0.375527977 | 1.250997179 | 1 | 0 |
| 1A5 x 1E4 | A51.2 | 0.268945067 | 0.295571832 | 0.909914403 | 0 | 0 |
| 1A5 x 1E4 | A53.2 | 0.420112865 | 0.362926534 | 1.157569992 | 0 | 0 |
| 1A5 x 1E4 | A54.1 | 0.412382635 | 0.375899568 | 1.097055357 | NA | 0 |
| 1A5 x 1E4 | A54.2 | 0.366687537 | 0.270159256 | 1.357301404 | 0 | 0 |
| 1A5 x 1E4 | A55.1 | 0.431830196 | 0.391754045 | 1.102299267 | 0 | 0 |
| 1A5 x 1E4 | A55.2 | 0.367024744 | 0.28450597 | 1.290042327 | 0 | 0 |
| 1A5 x 1E4 | A57.1 | 0.483546888 | 0.421572487 | 1.1470077 | 1 | 0 |
| 1A5 x 1E4 | A59.1 | 0.378523459 | 0.34101273 | 1.109998032 | 0 | 0 |
| 1A5 x 1E4 | A59.2 | 0.428648387 | 0.171422502 | 2.500537453 | 0 | 0 |
| 1A5 x 1E4 | A6.1 | 0.402862687 | 0.379133611 | 1.062587636 | 0 | 0 |
| 1A5 x 1E4 | A60.1 | 0.575805037 | 0.377215786 | 1.526460607 | NA | 0 |
| 1A5 x 1E4 | A60.2 | 0.49104263 | 0.338474017 | 1.450754285 | NA | 0 |
| 1A5 x 1E4 | A62.1 | NA | NA | NA | NA | NA |
| 1A5 x 1E4 | A62.2 | 0.312016293 | 0.344734171 | 0.905092442 | 0 | 0 |
| 1A5 x 1E4 | A63.1 | 0.400394609 | 0.393268339 | 1.018120631 | 0 | 0 |
| 1A5 x 1E4 | A63.2 | 0.26900977 | 0.292865377 | 0.918544117 | 0 | 0 |
| 1A5 x 1E4 | A64.1 | 0.388969681 | 0.397761976 | 0.977895589 | 1 | 0 |
| 1A5 x 1E4 | A66.1 | 0.271517302 | 0.23173355 | 1.171678859 | 1 | 0 |
| 1A5 x 1E4 | A66.2 | 0.517962094 | 0.463963489 | 1.116385464 | 1 | 0 |
| 1A5 x 1E4 | A8.1 | 0.256349924 | 0.256257293 | 1.000361476 | NA | 0 |
| 1A5 x 1E4 | A9.1 | 0.265145977 | 0.308949364 | 0.858218232 | NA | 0 |
| 1A5 x 1E4 | A9.2 | 0.415770034 | 0.392218776 | 1.060046228 | 1 | 0 |
| 1A5 x 1E4 | B1.1 | 0.382522386 | 0.384274759 | 0.995439792 | 0 | 0 |
| 1A5 x 1E4 | B1.3 | 0.358521271 | 0.320393704 | 1.119002237 | 1 | 0 |
| 1A5 x 1E4 | B10.1 | 0.271242062 | 0.33574517 | 0.807880758 | 0 | 0 |
| 1A5 x 1E4 | B10.2 | 0.293431417 | 0.269139867 | 1.090256232 | 1 | 0 |
| 1A5 x 1E4 | B11.1 | 0.432230038 | 0.331801146 | 1.302677954 | NA | 0 |
| 1A5 x 1E4 | B12.1 | 0.27141752 | 0.313468997 | 0.865851241 | 0 | 0 |
| 1A5 x 1E4 | B13.2 | 0.387599256 | 0.330680813 | 1.172125027 | NA | 0 |
| 1A5 x 1E4 | B14.1 | 0.349722777 | 0.339727873 | 1.029420323 | NA | 0 |
| 1A5 x 1E4 | B15.1 | NA | NA | NA | NA | 0 |
| 1A5 x 1E4 | B16.1 | 0.260482077 | 0.225712536 | 1.154043464 | 0 | 0 |
| 1A5 x 1E4 | B16.2 | 0.611946556 | 0.400098582 | 1.529489442 | NA | 0 |
| 1A5 x 1E4 | B17.1 | 0.382237907 | 0.33036539 | 1.157015589 | 1 | 0 |
| 1A5 x 1E4 | B17.2 | 0.592456126 | 0.378874678 | 1.563725845 | NA | 0 |
| 1A5 x 1E4 | B18.1 | 0.439584788 | 0.23950511 | 1.835387931 | NA | 0 |
| 1A5 x 1E4 | B18.2 | 0.351547603 | 0.29085979 | 1.208649717 | 0 | 0 |
| 1A5 x 1E4 | B19.1 | 0.324356735 | 0.314407681 | 1.031643802 | 0 | 0 |
| 1A5 x 1E4 | B19.2 | 0.432476583 | 0.30964872 | 1.396668401 | NA | 0 |
| 1A5 x 1E4 | B20.1 | 0.591483261 | 0.367000496 | 1.611668832 | NA | 0 |
| 1A5 x 1E4 | B20.2 | 0.666984271 | 0.37426189 | 1.782132482 | NA | 0 |
| 1A5 x 1E4 | B21.1 | 0.694985784 | NA | NA | NA | NA |
| 1A5 x 1E4 | B22.1 | 0.387514339 | 0.342375112 | 1.131841437 | 1 | 1 |
| 1A5 x 1E4 | B22.2 | 0.334861109 | 0.213731349 | 1.566738391 | NA | NA |
| 1A5 x 1E4 | B23.1 | 0.362692561 | 0.279636018 | 1.297016612 | NA | 0 |
| 1A5 x 1E4 | B24.1 | 0.223173795 | 0.218324026 | 1.022213629 | NA | 0 |
| 1A5 x 1E4 | B24.2 | 0.303117617 | 0.255241353 | 1.187572521 | 0 | 0 |
| 1A5 x 1E4 | B25.1 | 0.35564852 | 0.283558939 | 1.254231383 | NA | 0 |
| 1A5 x 1E4 | B26.1 | 0.45685148 | 0.403835509 | 1.131281104 | NA | 0 |
| 1A5 x 1E4 | B27.1 | 0.284334081 | 0.354464702 | 0.802150622 | NA | 0 |
| 1A5 x 1E4 | B28.1 | 0.395353817 | 0.343159723 | 1.152098544 | NA | 0 |
| 1A5 x 1E4 | B28.2 | 0.517595122 | 0.389041921 | 1.330435345 | NA | 0 |
| 1A5 x 1E4 | B29.1 | 0.559914624 | 0.380592513 | 1.471165627 | 0 | 0 |
| 1A5 x 1E4 | B3.1 | 0.42809976 | 0.364536883 | 1.174366108 | NA | 0 |
| 1A5 x 1E4 | B30.1 | 0.3942933 | 0.390471175 | 1.009788495 | NA | 0 |
| 1A5 x 1E4 | B31.1 | 0.420706749 | 0.394610374 | 1.066132003 | 0 | 0 |
| 1A5 x 1E4 | B31.2 | 0.387475193 | 0.308753939 | 1.254964375 | 1 | 0 |
| 1A5 x 1E4 | B32.1 | 0.387798733 | 0.351296067 | 1.103908553 | NA | 0 |
| 1A5 x 1E4 | B32.2 | 0.426645331 | 0.292572626 | 1.458254443 | NA | 0 |
| 1A5 x 1E4 | B33.1 | 0.278427219 | 0.261253254 | 1.065736844 | 0 | 0 |
| 1A5 x 1E4 | B33.2 | 0.455820644 | 0.426092443 | 1.069769371 | NA | 0 |
| 1A5 x 1E4 | B34.2 | 0.289778891 | 0.273289097 | 1.060338277 | 0 | 0 |
| 1A5 x 1E4 | B35.1 | 0.38660161 | 0.336327987 | 1.149477964 | NA | 0 |
| 1A5 x 1E4 | B35.2 | 0.357964155 | 0.252442084 | 1.418005067 | NA | 0 |
| 1A5 x 1E4 | B37.1 | 0.410030766 | 0.38026785 | 1.078268292 | NA | 0 |
| 1A5 x 1E4 | B37.3 | 0.541580364 | 0.400935258 | 1.35079256 | NA | 0 |
| 1A5 x 1E4 | B38.1 | 0.495741013 | 0.411513586 | 1.204677149 | NA | 0 |
| 1A5 x 1E4 | B39.1 | 0.272078076 | 0.271040304 | 1.003828848 | NA | 0 |
| 1A5 x 1E4 | B39.2 | 0.302679961 | 0.215693998 | 1.403284112 | NA | 0 |
| 1A5 x 1E4 | B4.1 | 0.319435216 | 0.233008276 | 1.370917899 | NA | 0 |
| 1A5 x 1E4 | B4.2 | 0.379751744 | 0.426901168 | 0.889554239 | 0 | 0 |
| 1A5 x 1E4 | B40.2 | 0.409757481 | 0.370582418 | 1.105712146 | 0 | 0 |
| 1A5 x 1E4 | B41.1 | 0.446220986 | NA | NA | NA | 0 |
| 1A5 x 1E4 | B42.1 | 0.687387663 | 0.44944767 | 1.529405332 | NA | 0 |
| 1A5 x 1E4 | B42.2 | 0.215998931 | 0.267457314 | 0.807601511 | NA | 0 |
| 1A5 x 1E4 | B42.3 | 0.461921337 | 0.498389503 | 0.926827982 | NA | 0 |
| 1A5 x 1E4 | B43.1 | 0.378550568 | 0.311443699 | 1.215470306 | 0 | 0 |
| 1A5 x 1E4 | B44.1 | 0.320554276 | NA | NA | NA | 0 |
| 1A5 x 1E4 | B45.1 | 0.335350916 | 0.2648959 | 1.265972465 | 0 | 0 |
| 1A5 x 1E4 | B45.2 | 0.504787709 | 0.467384804 | 1.080025932 | 0 | 0 |
| 1A5 x 1E4 | B46.1 | 0.310822876 | 0.275243398 | 1.129265509 | NA | 0 |
| 1A5 x 1E4 | B46.2 | 0.229986552 | 0.233814064 | 0.983630104 | 0 | 0 |
| 1A5 x 1E4 | B48.1 | 0.29264465 | 0.316896989 | 0.923469329 | NA | 0 |
| 1A5 x 1E4 | B48.2 | 0.318880289 | 0.31156541 | 1.023477828 | NA | 0 |
| 1A5 x 1E4 | B49.1 | 0.375098915 | 0.274101126 | 1.368469078 | NA | 0 |
| 1A5 x 1E4 | B50.1 | 0.372543261 | 0.308098732 | 1.209168435 | 0 | 0 |
| 1A5 x 1E4 | B50.2 | 0.356871334 | 0.309730636 | 1.152199017 | NA | 0 |
| 1A5 x 1E4 | B51.1 | 0.2865592 | 0.263306044 | 1.088312275 | NA | 0 |
| 1A5 x 1E4 | B7.1 | 0.441524194 | 0.310778284 | 1.420704779 | 0 | 0 |
| 1A5 x 1E4 | B9.1 | 0.388076879 | 0.327660156 | 1.184388375 | 0 | 0 |
| 1A5 x 1E4 | B9.2 | 0.3356923 | 0.214551335 | 1.564624614 | 0 | 0 |
| 1A5 x 1E4 | C1.1 | 0.432597317 | 0.351288601 | 1.231458453 | NA | 0 |
| 1A5 x 1E4 | C1.2 | 0.46463921 | 0.415818806 | 1.117407878 | 0 | 0 |
| 1A5 x 1E4 | C10.1 | 0.253193442 | 0.275350523 | 0.919531365 | 0 | 0 |
| 1A5 x 1E4 | C11.1 | 0.570766355 | 0.430379908 | 1.326191918 | NA | 0 |
| 1A5 x 1E4 | C12.1 | NA | 0.371032301 | NA | NA | 1 |
| 1A5 x 1E4 | C12.2 | NA | NA | NA | NA | 0 |
| 1A5 x 1E4 | C13.1 | 0.405008922 | 0.332558047 | 1.217859337 | NA | 0 |
| 1A5 x 1E4 | C14.1 | 0.403262522 | 0.276885674 | 1.456422486 | 1 | 0 |
| 1A5 x 1E4 | C16.1 | 0.390116101 | 0.344992121 | 1.130797132 | 1 | 0 |
| 1A5 x 1E4 | C16.2 | 0.294618519 | 0.289426727 | 1.017938191 | NA | 0 |
| 1A5 x 1E4 | C16.3 | 0.329717866 | 0.369853357 | 0.89148269 | NA | 0 |
| 1A5 x 1E4 | C17.1 | 0.307872943 | 0.303365507 | 1.0148581 | 0 | 0 |
| 1A5 x 1E4 | C19.1 | 0.213914607 | 0.238220212 | 0.897970014 | NA | 0 |
| 1A5 x 1E4 | C2.1 | 0.379828995 | 0.326815482 | 1.162212367 | NA | 0 |
| 1A5 x 1E4 | C2.2 | 0.321288213 | 0.351534742 | 0.913958637 | 1 | 0 |
| 1A5 x 1E4 | C20.1 | 0.245802458 | 0.231775234 | 1.060520805 | 0 | 0 |
| 1A5 x 1E4 | C20.2 | 0.346505576 | 0.333519589 | 1.038936203 | NA | 0 |
| 1A5 x 1E4 | C21.1 | 0.247097394 | 0.239383171 | 1.032225417 | 0 | 0 |
| 1A5 x 1E4 | C21.2 | 0.284299515 | 0.366426949 | 0.775869558 | NA | 0 |
| 1A5 x 1E4 | C22.1 | 0.319873715 | 0.294155419 | 1.087430979 | 1 | 0 |
| 1A5 x 1E4 | C22.2 | 0.490701018 | 0.397504829 | 1.234452974 | NA | NA |
| 1A5 x 1E4 | C23.1 | 0.272671233 | 0.255494537 | 1.067229211 | NA | 0 |
| 1A5 x 1E4 | C23.2 | 0.287086826 | 0.300653547 | 0.9548759 | 0 | 0 |
| 1A5 x 1E4 | C24.1 | 0.402372242 | 0.426437014 | 0.943567816 | NA | 0 |
| 1A5 x 1E4 | C24.2 | 0.576562203 | 0.409959746 | 1.406387357 | NA | 1 |
| 1A5 x 1E4 | C25.1 | 0.364605001 | 0.325801625 | 1.119101235 | 0 | 0 |
| 1A5 x 1E4 | C26.1 | 0.380704312 | 0.233686764 | 1.629122272 | NA | 0 |
| 1A5 x 1E4 | C27.1 | 0.298382347 | 0.359416908 | 0.830184502 | NA | 0 |
| 1A5 x 1E4 | C27.2 | 0.318402863 | 0.276751135 | 1.150502468 | NA | 0 |
| 1A5 x 1E4 | C28.1 | 0.334834761 | 0.366761219 | 0.912950289 | NA | 0 |
| 1A5 x 1E4 | C28.2 | 0.393579236 | 0.37551746 | 1.048098365 | NA | 0 |
| 1A5 x 1E4 | C29.2 | 0.263373246 | 0.308524497 | 0.853654244 | 0 | 0 |
| 1A5 x 1E4 | C3.1 | 0.450342755 | 0.360190148 | 1.250291707 | NA | 0 |
| 1A5 x 1E4 | C3.2 | 0.479869527 | 0.377916795 | 1.269775604 | NA | 0 |
| 1A5 x 1E4 | C30.1 | 0.298591256 | 0.219368861 | 1.361137831 | 0 | 0 |
| 1A5 x 1E4 | C30.2 | 0.489414965 | 0.348960397 | 1.402494291 | 1 | 0 |
| 1A5 x 1E4 | C31.1 | 0.641071887 | 0.397009264 | 1.614752969 | 0 | 0 |
| 1A5 x 1E4 | C32.1 | 0.385113527 | 0.251060085 | 1.533949643 | NA | 0 |
| 1A5 x 1E4 | C32.2 | 0.442475151 | 0.384068587 | 1.152073264 | NA | 0 |
| 1A5 x 1E4 | C33.1 | 0.461942042 | 0.316552873 | 1.459288735 | NA | 0 |
| 1A5 x 1E4 | C33.2 | 0.445796042 | 0.366630297 | 1.215927994 | NA | 0 |
| 1A5 x 1E4 | C34.1 | 0.379336104 | 0.265420384 | 1.429189798 | NA | 0 |
| 1A5 x 1E4 | C34.2 | 0.374423532 | 0.36203636 | 1.034215269 | 0 | 0 |
| 1A5 x 1E4 | C35.1 | 0.345372987 | 0.235666089 | 1.465518389 | 0 | 0 |
| 1A5 x 1E4 | C36.1 | 0.380475944 | 0.398623462 | 0.954474537 | NA | 0 |
| 1A5 x 1E4 | C38.1 | 0.608329291 | 0.325955147 | 1.866297547 | 1 | 0 |
| 1A5 x 1E4 | C38.2 | 0.357069125 | 0.380880439 | 0.937483496 | NA | 0 |
| 1A5 x 1E4 | C4.1 | 0.485477118 | 0.324838513 | 1.494518348 | NA | NA |
| 1A5 x 1E4 | C4.2 | 0.476445811 | 0.321821066 | 1.480468067 | NA | 0 |
| 1A5 x 1E4 | C41.1 | 0.408065693 | 0.363733647 | 1.12188052 | NA | 0 |
| 1A5 x 1E4 | C41.2 | 0.321687218 | 0.252873232 | 1.272128393 | 0 | 0 |
| 1A5 x 1E4 | C42.1 | 0.513820959 | 0.413692893 | 1.242034776 | NA | 0 |
| 1A5 x 1E4 | C42.2 | 0.353700643 | 0.261138686 | 1.354455168 | 0 | 0 |
| 1A5 x 1E4 | C44.1 | 0.297223713 | 0.285722869 | 1.040251744 | 0 | 0 |
| 1A5 x 1E4 | C44.2 | 0.434520491 | 0.332774729 | 1.305749666 | NA | NA |
| 1A5 x 1E4 | C45.1 | 0.384032004 | 0.360932591 | 1.063999245 | NA | 0 |
| 1A5 x 1E4 | C45.2 | 0.542947948 | 0.472436761 | 1.14925 | 1 | NA |
| 1A5 x 1E4 | C48.1 | 0.415893986 | 0.35882016 | 1.159059698 | 0 | 0 |
| 1A5 x 1E4 | C48.2 | 0.382822785 | 0.39279022 | 0.974624023 | NA | 0 |
| 1A5 x 1E4 | C49.1 | NA | 0.234822998 | NA | NA | 0 |
| 1A5 x 1E4 | C5.1 | 0.545894135 | 0.42484691 | 1.284919632 | NA | 0 |
| 1A5 x 1E4 | C5.2 | 0.216355801 | 0.226209962 | 0.95643799 | 0 | 0 |
| 1A5 x 1E4 | C51.1 | 0.279214673 | 0.300993547 | 0.927643387 | NA | 0 |
| 1A5 x 1E4 | C51.2 | 0.654413053 | NA | NA | NA | 0 |
| 1A5 x 1E4 | C52.1 | 0.41038619 | 0.278175267 | 1.475279217 | 0 | 0 |
| 1A5 x 1E4 | C53.1 | 0.585122504 | 0.458321239 | 1.276664607 | 1 | 0 |
| 1A5 x 1E4 | C54.1 | 0.592299004 | 0.387549916 | 1.528316688 | 0 | 0 |
| 1A5 x 1E4 | C55.1 | 0.288298353 | 0.187989901 | 1.533584265 | 0 | 0 |
| 1A5 x 1E4 | C55.2 | 0.341476136 | 0.366796677 | 0.930968455 | 0 | 0 |
| 1A5 x 1E4 | C56.1 | 0.455979148 | 0.383264187 | 1.189725427 | NA | 0 |
| 1A5 x 1E4 | C56.2 | 0.277264886 | 0.284182511 | 0.97565781 | 0 | 0 |
| 1A5 x 1E4 | C57.1 | 0.315168619 | 0.372526377 | 0.846030344 | NA | 0 |
| 1A5 x 1E4 | C57.2 | 0.236857646 | 0.243307182 | 0.973492211 | 0 | 0 |
| 1A5 x 1E4 | C59.2 | 0.339492565 | 0.265109892 | 1.280572982 | NA | 0 |
| 1A5 x 1E4 | C6.1 | 0.31267625 | 0.323470384 | 0.966630226 | 0 | 0 |
| 1A5 x 1E4 | C60.1 | 0.282001689 | 0.231195167 | 1.219755986 | NA | 0 |
| 1A5 x 1E4 | C60.2 | 0.362149298 | 0.386195534 | 0.937735591 | NA | NA |
| 1A5 x 1E4 | C61.1 | 0.320097108 | 0.388496566 | 0.823938064 | 0 | 0 |
| 1A5 x 1E4 | C61.2 | NA | 0.427193126 | NA | NA | 0 |
| 1A5 x 1E4 | C62.1 | 0.519775835 | 0.432244467 | 1.202504311 | NA | 0 |
| 1A5 x 1E4 | C62.2 | 0.343364504 | 0.253285485 | 1.355642248 | 0 | 0 |
| 1A5 x 1E4 | C63.1 | 0.306490213 | 0.252376028 | 1.214418881 | 0 | 0 |
| 1A5 x 1E4 | C7.1 | 0.387162566 | 0.352736429 | 1.097597338 | 0 | 0 |
| 1A5 x 1E4 | C7.2 | 0.492069977 | 0.361661979 | 1.360579784 | NA | 0 |
| 1A5 x 1E4 | C8.1 | 0.272404406 | NA | NA | 0 | 0 |
| 1A5 x 1E4 | CR4\_A1.1 | 0.207601154 | 0.185565937 | 1.118746021 | 0 | 0 |
| 1A5 x 1E4 | CR4\_A2.1 | 0.331058545 | 0.351216309 | 0.942605843 | 0 | 0 |
| 1A5 x 1E4 | CR4\_A2.2 | 0.453603857 | 0.348886809 | 1.300146194 | NA | 0 |
| 1A5 x 1E4 | CR4\_A3.1 | 0.495287112 | 0.391407362 | 1.265400604 | NA | 0 |
| 1A5 x 1E4 | CR4\_A3.2 | 0.436238914 | 0.356938954 | 1.22216673 | 0 | 0 |
| 1A5 x 1E4 | CR4\_A4.1 | 0.373954122 | 0.292714892 | 1.277537059 | 0 | 0 |
| 1A5 x 1E4 | D1.1 | 0.26972111 | 0.350891486 | 0.768673851 | 0 | 0 |
| 1A5 x 1E4 | D1.2 | 0.436173951 | 0.328811139 | 1.326518174 | 1 | 0 |
| 1A5 x 1E4 | D1.3 | 0.359702963 | 0.246712935 | 1.457981778 | 0 | 0 |
| 1A5 x 1E4 | D10.1 | 0.420091693 | 0.271009922 | 1.550097096 | 0 | 0 |
| 1A5 x 1E4 | D11.1 | 0.488915673 | 0.37717436 | 1.296259039 | NA | 0 |
| 1A5 x 1E4 | D2.1 | 0.360484584 | 0.332175316 | 1.085223876 | 0 | 0 |
| 1A5 x 1E4 | D3.1 | 0.309732762 | 0.225744091 | 1.372052582 | NA | 0 |
| 1A5 x 1E4 | D3.2 | 0.333057061 | 0.269678045 | 1.235017335 | 1 | 0 |
| 1A5 x 1E4 | D4.1 | 0.29938525 | 0.290278097 | 1.031373891 | 0 | 0 |
| 1A5 x 1E4 | D5.1 | 0.427181204 | 0.394776861 | 1.082082682 | 0 | 0 |
| 1A5 x 1E4 | D7.1 | 0.570777621 | 0.437198746 | 1.305533525 | NA | 0 |
| 1A5 x 1E4 | D7.2 | 0.214350928 | 0.240356491 | 0.891804199 | 0 | 0 |
| 1A5 x 1E4 | D7.3 | 0.364082728 | 0.384653042 | 0.94652242 | 0 | 0 |
| 1A5 x 1E4 | D9.1 | 0.603564131 | 0.433779699 | 1.391407049 | 1 | 0 |
| 1A5 x 1E4 | D9.2 | 0.32088736 | 0.363785951 | 0.882077385 | 1 | 0 |