

Manuscript title:Population Structure of Nepali Spring Wheat (*Triticum aestivum* L.) Germplasm**Journal:**

BMC Plant Biology

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| Entry | ID | Subpopulation assigned | Q-matrix for K=4 | | | |
|-------|-------------|------------------------|------------------|----------|----------|----------|
| 310 | BW49392 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 112 | NGRC 04410 | 3 | 0.06723 | 0.000001 | 0.932768 | 0.000001 |
| 311 | BW49394 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 94 | NGRC 02622 | 3 | 0.442918 | 0.000001 | 0.55708 | 0.000001 |
| 28 | NGRC 02472 | 4 | 0.000001 | 0.288455 | 0.000001 | 0.711542 |
| 128 | NGRC 04430 | 1 | 0.613955 | 0.000001 | 0.386042 | 0.000001 |
| 64 | NGRC 02584 | 4 | 0.000001 | 0.000001 | 0.000001 | 0.999996 |
| 283 | BW49934 | 2 | 0.045469 | 0.908875 | 0.000001 | 0.045654 |
| 191 | Pasanglhamu | 2 | 0.000001 | 0.882494 | 0.022348 | 0.095157 |
| 167 | NGRC 04474 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 248 | BW49069 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 144 | NGRC 04450 | 4 | 0.000001 | 0.000001 | 0.391668 | 0.608329 |
| 202 | BW30655 | 2 | 0.025076 | 0.938789 | 0.036133 | 0.000001 |
| 41 | NGRC 02557 | 3 | 0.386425 | 0.000001 | 0.595937 | 0.017637 |
| 227 | BW48140 | 2 | 0.000256 | 0.990452 | 0.000001 | 0.00929 |
| 99 | NGRC 02630 | 1 | 0.999996 | 0.000001 | 0.000001 | 0.000001 |
| 209 | BW45568 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 109 | NGRC 04406 | 1 | 0.999996 | 0.000001 | 0.000001 | 0.000001 |
| 182 | Annapurna 2 | 2 | 0.043254 | 0.956743 | 0.000001 | 0.000001 |
| 45 | NGRC 02561 | 4 | 0.000001 | 0.000001 | 0.043952 | 0.956046 |
| 303 | BW49329 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 51 | NGRC 02568 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 188 | Achyut | 2 | 0.000001 | 0.939489 | 0.000001 | 0.060508 |
| 242 | BW48162 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 273 | BW49112 | 2 | 0.000001 | 0.954749 | 0.000001 | 0.045248 |
| 150 | NGRC 04456 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 57 | NGRC 02575 | 3 | 0.134169 | 0.000001 | 0.865828 | 0.000001 |
| 18 | NGRC 02458 | 1 | 0.999996 | 0.000001 | 0.000001 | 0.000001 |
| 90 | NGRC 02617 | 1 | 0.972192 | 0.000001 | 0.027805 | 0.000001 |

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|-----|-------------|---|----------|----------|----------|----------|
| 223 | BW48136 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 186 | BL 1135 | 4 | 0.017668 | 0.380052 | 0.000001 | 0.602278 |
| 9 | NGRC 00205 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 140 | NGRC 04446 | 3 | 0.083778 | 0.000001 | 0.901894 | 0.014327 |
| 249 | BW49227 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 29 | NGRC 02496 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 130 | NGRC 04432 | 3 | 0.268263 | 0.000001 | 0.731734 | 0.000001 |
| 63 | NGRC 02582 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 298 | BW49307 | 2 | 0.000001 | 0.829941 | 0.001669 | 0.168388 |
| 319 | Carberry | 4 | 0.051663 | 0.367847 | 0.034703 | 0.545787 |
| 219 | BW45595 | 2 | 0.000001 | 0.9108 | 0.037488 | 0.051711 |
| 260 | BW49089 | 2 | 0.000001 | 0.820218 | 0.000001 | 0.179779 |
| 213 | BW45578 | 2 | 0.015691 | 0.917175 | 0.000001 | 0.067133 |
| 16 | NGRC 02456 | 3 | 0.346522 | 0.000001 | 0.653475 | 0.000001 |
| 284 | BW49936 | 2 | 0.033709 | 0.790719 | 0.019915 | 0.155656 |
| 176 | Vinayak | 2 | 0.000001 | 0.616388 | 0.000001 | 0.383609 |
| 201 | Tilottama | 2 | 0.000001 | 0.888882 | 0.000001 | 0.111115 |
| 270 | BW49109 | 2 | 0.17511 | 0.673614 | 0.115546 | 0.035731 |
| 3 | NGRC 00179 | 3 | 0.06003 | 0.000001 | 0.939968 | 0.000001 |
| 208 | BW44908 | 2 | 0.000001 | 0.702373 | 0.020998 | 0.276627 |
| 55 | NGRC 02572 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 275 | BW49922 | 2 | 0.005736 | 0.91925 | 0.000001 | 0.075013 |
| 281 | BW49932 | 2 | 0.007153 | 0.822022 | 0.000001 | 0.170823 |
| 85 | NGRC 02611 | 1 | 0.999996 | 0.000001 | 0.000001 | 0.000001 |
| 233 | BW48150 | 2 | 0.012842 | 0.660921 | 0.000001 | 0.326235 |
| 308 | BW49351 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 73 | NGRC 02595 | 4 | 0.000001 | 0.120396 | 0.115633 | 0.76397 |
| 183 | Annapurna 3 | 2 | 0.038399 | 0.961598 | 0.000001 | 0.000001 |
| 160 | NGRC 04466 | 3 | 0.000001 | 0.018348 | 0.540677 | 0.440974 |
| 317 | BW49458 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 42 | NGRC 02558 | 3 | 0.383517 | 0.000001 | 0.61648 | 0.000001 |
| 157 | NGRC 04463 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 8 | NGRC 00204 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 47 | NGRC 02564 | 2 | 0.000001 | 0.702277 | 0.000001 | 0.29772 |
| 212 | BW45173 | 2 | 0.000001 | 0.631328 | 0.07073 | 0.29794 |
| 215 | BW45592 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 315 | BW49448 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 14 | NGRC 02452 | 3 | 0.385022 | 0.000001 | 0.614975 | 0.000001 |
| 258 | BW49084 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 169 | Kalyansona | 2 | 0.000001 | 0.699429 | 0.000001 | 0.300569 |
| 203 | BW35623 | 2 | 0.000001 | 0.660191 | 0.000001 | 0.339806 |
| 178 | Vaskar | 2 | 0.000001 | 0.873527 | 0.000001 | 0.126471 |
| 257 | BW49344 | 2 | 0.000001 | 0.773478 | 0.000001 | 0.22652 |
| 141 | NGRC 04447 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 83 | NGRC 02609 | 4 | 0.000001 | 0.000001 | 0.493544 | 0.506453 |
| 89 | NGRC 02615 | 1 | 0.999996 | 0.000001 | 0.000001 | 0.000001 |
| 113 | NGRC 04413 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 276 | BW49923 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 135 | NGRC 04439 | 1 | 0.484748 | 0.070068 | 0.274427 | 0.170757 |
| 56 | NGRC 02574 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 125 | NGRC 04427 | 2 | 0.111846 | 0.529512 | 0.000001 | 0.358641 |
| 166 | NGRC 04473 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 116 | NGRC 04417 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 259 | BW49088 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 301 | BW49327 | 4 | 0.035611 | 0.370952 | 0.021824 | 0.571613 |

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|-----|-------------|---|----------|----------|----------|----------|
| 153 | NGRC 04459 | 2 | 0.000001 | 0.823506 | 0.000001 | 0.176491 |
| 232 | BW48149 | 1 | 0.999996 | 0.000001 | 0.000001 | 0.000001 |
| 11 | NGRC 02449 | 2 | 0.000001 | 0.945863 | 0.000001 | 0.054134 |
| 300 | BW49326 | 3 | 0.359342 | 0.000001 | 0.640655 | 0.000001 |
| 77 | NGRC 02603 | 2 | 0.000001 | 0.924641 | 0.000001 | 0.075356 |
| 10 | NGRC 02448 | 2 | 0.036612 | 0.963385 | 0.000001 | 0.000001 |
| 145 | NGRC 04451 | 2 | 0.198288 | 0.658532 | 0.000001 | 0.143178 |
| 199 | Dhaulagiri | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 48 | NGRC 02565 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 226 | BW48171 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 306 | BW49333 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 103 | NGRC 04399 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 246 | BW48169 | 4 | 0.000001 | 0.000001 | 0.000001 | 0.999996 |
| 62 | NGRC 02581 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 36 | NGRC 02551 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 320 | Norwell | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 218 | BW45165 | 2 | 0.000001 | 0.765292 | 0.000001 | 0.234705 |
| 75 | NGRC 02599 | 4 | 0.000001 | 0.181149 | 0.000001 | 0.818848 |
| 92 | NGRC 02620 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 272 | BW49111 | 4 | 0.033021 | 0.15921 | 0.077163 | 0.730606 |
| 132 | NGRC 04434 | 3 | 0.002042 | 0.000001 | 0.997955 | 0.000001 |
| 292 | BW49955 | 4 | 0.000001 | 0.000001 | 0.476847 | 0.52315 |
| 184 | BL 1022 | 4 | 0.000001 | 0.18599 | 0.000001 | 0.814007 |
| 221 | BW48133 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 261 | BW49391 | 1 | 0.65861 | 0.000001 | 0.341388 | 0.000001 |
| 147 | NGRC 04453 | 2 | 0.003896 | 0.889542 | 0.035568 | 0.070995 |
| 224 | BW48137 | 2 | 0.000001 | 0.840046 | 0.000001 | 0.159952 |
| 263 | BW49093 | 2 | 0.008842 | 0.849106 | 0.000001 | 0.14205 |
| 24 | NGRC 02466 | 2 | 0.000001 | 0.787369 | 0.000001 | 0.212628 |
| 60 | NGRC 02579 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 115 | NGRC 04416 | 2 | 0.000001 | 0.758305 | 0.000001 | 0.241692 |
| 247 | BW48168 | 2 | 0.000001 | 0.813883 | 0.000001 | 0.186115 |
| 299 | BW49325 | 1 | 0.999996 | 0.000001 | 0.000001 | 0.000001 |
| 285 | BW49939 | 4 | 0.000001 | 0.000001 | 0.221658 | 0.77834 |
| 35 | NGRC 02550 | 2 | 0.000001 | 0.469712 | 0.085233 | 0.445054 |
| 174 | Lumbini | 2 | 0.000001 | 0.690828 | 0.01186 | 0.297311 |
| 133 | NGRC 04436 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 121 | NGRC 04423 | 1 | 0.433614 | 0.210728 | 0.000001 | 0.355656 |
| 172 | NL 30 | 2 | 0.000001 | 0.945479 | 0.000001 | 0.054518 |
| 253 | BW49077 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 97 | NGRC 02625 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 108 | NGRC 04405 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 277 | BW49924 | 3 | 0.001835 | 0.000001 | 0.998162 | 0.000001 |
| 104 | NGRC 04400 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 84 | NGRC 02610 | 2 | 0.000001 | 0.571072 | 0.428926 | 0.000001 |
| 316 | BW49456 | 2 | 0.000001 | 0.502849 | 0.087676 | 0.409473 |
| 190 | Kanti | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 266 | BW49097 | 4 | 0.000001 | 0.000001 | 0.000001 | 0.999996 |
| 54 | NGRC 02571 | 2 | 0.000001 | 0.80197 | 0.000001 | 0.198027 |
| 120 | NGRC 04422 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 187 | Annapurna 4 | 3 | 0.271438 | 0.000001 | 0.728559 | 0.000001 |
| 280 | BW49931 | 2 | 0.000001 | 0.808447 | 0.000001 | 0.191551 |
| 114 | NGRC 04414 | 2 | 0.000001 | 0.630169 | 0.05236 | 0.317469 |
| 262 | BW49092 | 2 | 0.050094 | 0.803962 | 0.000001 | 0.145943 |
| 168 | Lerma 52 | 4 | 0.063344 | 0.248897 | 0.000001 | 0.687758 |

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|-----|-------------|---|----------|----------|----------|----------|
| 236 | BW48155 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 111 | NGRC 04409 | 2 | 0.000001 | 0.882593 | 0.000001 | 0.117404 |
| 119 | NGRC 04421 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 106 | NGRC 04402 | 2 | 0.000001 | 0.732176 | 0.000001 | 0.267821 |
| 15 | NGRC 02455 | 2 | 0.000001 | 0.973332 | 0.000001 | 0.026665 |
| 38 | NGRC 02553 | 3 | 0.446493 | 0.000001 | 0.553504 | 0.000001 |
| 156 | NGRC 04462 | 4 | 0.000001 | 0.418709 | 0.000001 | 0.581288 |
| 200 | Danphe | 1 | 0.999996 | 0.000001 | 0.000001 | 0.000001 |
| 100 | NGRC 02631 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 286 | BW49943 | 1 | 0.999996 | 0.000001 | 0.000001 | 0.000001 |
| 123 | NGRC 04425 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 235 | BW48154 | 1 | 0.5722 | 0.085154 | 0.146293 | 0.196353 |
| 27 | NGRC 02471 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 129 | NGRC 04431 | 2 | 0.000001 | 0.987975 | 0.000001 | 0.012022 |
| 70 | NGRC 02591 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 180 | NL 251 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 105 | NGRC 04401 | 2 | 0.000001 | 0.958438 | 0.022279 | 0.019282 |
| 170 | Pitic 62 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 239 | BW48172 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 237 | BW48156 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 287 | BW49948 | 4 | 0.000001 | 0.000001 | 0.10499 | 0.895007 |
| 252 | BW49075 | 4 | 0.000001 | 0.000001 | 0.000001 | 0.999996 |
| 118 | NGRC 04419 | 3 | 0.118942 | 0.119253 | 0.438735 | 0.323069 |
| 193 | Gautam | 2 | 0.000001 | 0.988109 | 0.000001 | 0.011888 |
| 229 | BW48144 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 274 | BW49113 | 4 | 0.000001 | 0.194654 | 0.000001 | 0.805343 |
| 4 | NGRC 00180 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 127 | NGRC 04429 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 122 | NGRC 04424 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 282 | BW49933 | 1 | 0.999996 | 0.000001 | 0.000001 | 0.000001 |
| 264 | BW49399 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 71 | NGRC 02593 | 3 | 0.207427 | 0.000001 | 0.79257 | 0.000001 |
| 88 | NGRC 02614 | 4 | 0.223478 | 0.284567 | 0.000001 | 0.491953 |
| 164 | NGRC 04471 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 179 | Nepal 297 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 53 | NGRC 02570 | 4 | 0.000001 | 0.216597 | 0.000001 | 0.7834 |
| 82 | NGRC 02608 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 30 | NGRC 02544 | 1 | 0.492635 | 0.133866 | 0.000001 | 0.373498 |
| 206 | BW43354 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 294 | BW49957 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 87 | NGRC 02613 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 107 | NGRC 04404 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 195 | NL 971 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 46 | NGRC 02563 | 4 | 0.000001 | 0.000001 | 0.000001 | 0.999996 |
| 13 | NGRC 02451 | 4 | 0.225456 | 0.25633 | 0.050791 | 0.467422 |
| 110 | NGRC 04408 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 181 | Annapurna 1 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 288 | BW49949 | 2 | 0.000001 | 0.690186 | 0.000001 | 0.309811 |
| 171 | RR21 | 2 | 0.000001 | 0.87341 | 0.000001 | 0.126587 |
| 138 | NGRC 04444 | 2 | 0.009773 | 0.589282 | 0.000001 | 0.400944 |
| 5 | NGRC 00181 | 2 | 0.000001 | 0.970052 | 0.000001 | 0.029945 |
| 66 | NGRC 02586 | 2 | 0.000001 | 0.709486 | 0.000001 | 0.290511 |
| 312 | BW49094 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 44 | NGRC 02560 | 2 | 0.000049 | 0.980058 | 0.019892 | 0.000001 |
| 61 | NGRC 02580 | 3 | 0.229129 | 0.000001 | 0.770868 | 0.000001 |

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|-----|------------|---|----------|----------|----------|----------|
| 23 | NGRC 02465 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 313 | BW49400 | 2 | 0.000001 | 0.59466 | 0.000007 | 0.405332 |
| 244 | BW48166 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 12 | NGRC 02450 | 4 | 0.000001 | 0.000001 | 0.000001 | 0.999996 |
| 159 | NGRC 04465 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 96 | NGRC 02624 | 2 | 0.000001 | 0.671682 | 0.000001 | 0.328315 |
| 134 | NGRC 04437 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 131 | NGRC 04433 | 2 | 0.000001 | 0.669872 | 0.000001 | 0.330125 |
| 302 | BW49328 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 175 | Tribeni | 4 | 0.000001 | 0.28188 | 0.000001 | 0.718117 |
| 295 | BW49958 | 3 | 0.208129 | 0.000001 | 0.791868 | 0.000001 |
| 165 | NGRC 04472 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 279 | BW49929 | 3 | 0.21915 | 0.000001 | 0.780847 | 0.000001 |
| 251 | BW49072 | 1 | 0.999996 | 0.000001 | 0.000001 | 0.000001 |
| 102 | NGRC 02633 | 2 | 0.000001 | 0.662473 | 0.000001 | 0.337525 |
| 163 | NGRC 04470 | 1 | 0.551984 | 0.000001 | 0.448013 | 0.000001 |
| 21 | NGRC 02461 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 196 | Aditya | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 309 | BW49385 | 4 | 0.000001 | 0.000001 | 0.000001 | 0.999996 |
| 139 | NGRC 04445 | 2 | 0.142692 | 0.485802 | 0.046338 | 0.325168 |
| 149 | NGRC 04455 | 4 | 0.000001 | 0.225006 | 0.000001 | 0.774991 |
| 98 | NGRC 02629 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 39 | NGRC 02554 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 31 | NGRC 02546 | 4 | 0.000001 | 0.22001 | 0.000001 | 0.779987 |
| 81 | NGRC 02607 | 2 | 0.033451 | 0.792673 | 0.02254 | 0.151336 |
| 124 | NGRC 04426 | 2 | 0.0229 | 0.682484 | 0.000001 | 0.294614 |
| 68 | NGRC 02589 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 93 | NGRC 02621 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 256 | BW49082 | 3 | 0.27337 | 0.000001 | 0.726627 | 0.000001 |
| 314 | BW49099 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 225 | BW48139 | 2 | 0.055423 | 0.892314 | 0.000001 | 0.052261 |
| 69 | NGRC 02590 | 2 | 0.000001 | 0.688368 | 0.000001 | 0.311629 |
| 26 | NGRC 02470 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 1 | NGRC 00176 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 268 | BW49102 | 2 | 0.00936 | 0.60007 | 0.000001 | 0.390568 |
| 158 | NGRC 04464 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 117 | NGRC 04418 | 2 | 0.020656 | 0.52073 | 0.458613 | 0.000001 |
| 290 | BW49953 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 2 | NGRC 00177 | 4 | 0.000001 | 0.000001 | 0.000001 | 0.999996 |
| 189 | Rohini | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 91 | NGRC 02619 | 2 | 0.000001 | 0.994948 | 0.000001 | 0.005049 |
| 207 | BW44829 | 1 | 0.572075 | 0.095318 | 0.000001 | 0.332605 |
| 86 | NGRC 02612 | 4 | 0.046027 | 0.000001 | 0.230811 | 0.723161 |
| 136 | NGRC 04440 | 2 | 0.051273 | 0.521426 | 0.000001 | 0.4273 |
| 72 | NGRC 02594 | 4 | 0.000001 | 0.000001 | 0.000001 | 0.999996 |
| 43 | NGRC 02559 | 2 | 0.000001 | 0.468547 | 0.091384 | 0.440068 |
| 7 | NGRC 00202 | 1 | 0.999996 | 0.000001 | 0.000001 | 0.000001 |
| 197 | Vijay | 2 | 0.000001 | 0.795105 | 0.002602 | 0.202292 |
| 243 | BW48163 | 3 | 0.031856 | 0.000001 | 0.968141 | 0.000001 |
| 148 | NGRC 04454 | 3 | 0.081633 | 0.000001 | 0.918364 | 0.000001 |
| 19 | NGRC 02459 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 152 | NGRC 04458 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 58 | NGRC 02576 | 3 | 0.025145 | 0.000001 | 0.974852 | 0.000001 |
| 173 | UP 262 | 1 | 0.999996 | 0.000001 | 0.000001 | 0.000001 |
| 151 | NGRC 04457 | 4 | 0.030541 | 0.412789 | 0.000572 | 0.556098 |

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|-----|------------|---|----------|----------|----------|----------|
| 204 | BW43945 | 2 | 0.000325 | 0.980523 | 0.019151 | 0.000001 |
| 177 | Siddhartha | 2 | 0.000001 | 0.999895 | 0.000001 | 0.000102 |
| 126 | NGRC 04428 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 80 | NGRC 02606 | 2 | 0.013695 | 0.714944 | 0.000001 | 0.27136 |
| 293 | BW49956 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 65 | NGRC 02585 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 25 | NGRC 02467 | 2 | 0.000001 | 0.845388 | 0.0189 | 0.13571 |
| 296 | BW48314 | 2 | 0.000001 | 0.959926 | 0.000001 | 0.040071 |
| 22 | NGRC 02462 | 2 | 0.000001 | 0.905829 | 0.000001 | 0.094168 |
| 238 | BW48158 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 245 | BW48165 | 2 | 0.000001 | 0.68325 | 0.000001 | 0.316747 |
| 143 | NGRC 04449 | 2 | 0.000001 | 0.918791 | 0.000001 | 0.081207 |
| 240 | BW48174 | 2 | 0.008883 | 0.896411 | 0.000001 | 0.094705 |
| 192 | BL 1473 | 4 | 0.000001 | 0.000001 | 0.000001 | 0.999996 |
| 198 | Gaura | 4 | 0.000001 | 0.000001 | 0.000001 | 0.999996 |
| 305 | BW49331 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 155 | NGRC 04461 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 222 | BW48135 | 3 | 0.04327 | 0.099204 | 0.69136 | 0.166166 |
| 185 | Bhrikuti | 2 | 0.000748 | 0.989812 | 0.000001 | 0.009438 |
| 40 | NGRC 02556 | 2 | 0.000001 | 0.918793 | 0.000001 | 0.081204 |
| 137 | NGRC 04443 | 2 | 0.000001 | 0.88111 | 0.003491 | 0.115398 |
| 76 | NGRC 02602 | 4 | 0.000001 | 0.000001 | 0.017692 | 0.982305 |
| 142 | NGRC 04448 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 146 | NGRC 04452 | 3 | 0.430681 | 0.000001 | 0.569317 | 0.000001 |
| 228 | BW48141 | 2 | 0.000334 | 0.754422 | 0.245243 | 0.000001 |
| 161 | NGRC 04467 | 3 | 0.000001 | 0.000001 | 0.543876 | 0.456121 |
| 33 | NGRC 02548 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 32 | NGRC 02547 | 2 | 0.000001 | 0.975167 | 0.000001 | 0.024831 |
| 211 | BW45573 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 265 | BW49095 | 2 | 0.000001 | 0.989296 | 0.000001 | 0.010701 |
| 255 | BW49079 | 3 | 0.081509 | 0.030062 | 0.843805 | 0.044624 |
| 101 | NGRC 02632 | 4 | 0.038345 | 0.351566 | 0.000001 | 0.610087 |
| 234 | BW48151 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 217 | BW45587 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 297 | BW49217 | 4 | 0.000001 | 0.000001 | 0.000001 | 0.999996 |
| 307 | BW49342 | 2 | 0.000001 | 0.859869 | 0.000001 | 0.140128 |
| 59 | NGRC 02578 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 220 | BW48132 | 4 | 0.000001 | 0.184845 | 0.000001 | 0.815153 |
| 79 | NGRC 02605 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 6 | NGRC 00199 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 250 | BW49235 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 95 | NGRC 02623 | 3 | 0.392987 | 0.000001 | 0.60701 | 0.000001 |
| 216 | BW45593 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 50 | NGRC 02567 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 49 | NGRC 02566 | 2 | 0.000001 | 0.707248 | 0.000001 | 0.292749 |
| 254 | BW49078 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 241 | BW48161 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 52 | NGRC 02569 | 4 | 0.000001 | 0.000001 | 0.104724 | 0.895273 |
| 210 | BW45152 | 2 | 0.000001 | 0.977019 | 0.000001 | 0.022979 |
| 194 | WK1204 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 205 | BW45161 | 3 | 0.048471 | 0.145181 | 0.496952 | 0.309396 |
| 289 | BW49950 | 2 | 0.008288 | 0.92509 | 0.024079 | 0.042543 |
| 278 | BW49927 | 4 | 0.02998 | 0.401004 | 0.000001 | 0.569015 |
| 230 | BW48145 | 2 | 0.023046 | 0.798355 | 0.000001 | 0.178598 |
| 154 | NGRC 04460 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |

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|-----|------------|---|----------|----------|----------|----------|
| 37 | NGRC 02552 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 304 | BW49330 | 2 | 0.000001 | 0.999996 | 0.000001 | 0.000001 |
| 291 | BW49954 | 2 | 0.000001 | 0.778016 | 0.000001 | 0.221981 |
| 271 | BW49110 | 2 | 0.02132 | 0.948721 | 0.029958 | 0.000001 |
| 67 | NGRC 02587 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 74 | NGRC 02596 | 3 | 0.000001 | 0.000001 | 0.846913 | 0.153084 |
| 269 | BW49108 | 2 | 0.000001 | 0.817022 | 0.000001 | 0.182975 |
| 214 | BW45590 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 17 | NGRC 02457 | 2 | 0.000001 | 0.900959 | 0.090108 | 0.008932 |
| 318 | Pasteur | 4 | 0.000001 | 0.000001 | 0.000001 | 0.999996 |
| 78 | NGRC 02604 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 34 | NGRC 02549 | 3 | 0.000001 | 0.000001 | 0.999996 | 0.000001 |
| 20 | NGRC 02460 | 2 | 0.000001 | 0.838974 | 0.000001 | 0.161023 |
| 231 | BW48148 | 2 | 0.000001 | 0.836216 | 0.000001 | 0.163782 |