

Supplementary Table 8. Genes from supplementary table 4 ordered in the way in which they occur in the heatmap in Figure 4b of the main text.

| gene name | protein name | reference name | strand | start | posit end | positi | log2 fold change | log10 p va | log10 FDR | GO category |
|-----------|----------------------------------------|--------------------|--------|---------|-----------|--------|------------------|------------|-----------|------------------|
| B7LAF3 | Zinc transporter zitB | TY-2482_chromosome | - | 4835917 | 4836855 | | 0.814486864 | 3.979247 | 3.440146 | cation transport |
| B7LGV1 | Cell volume regulation protein A | TY-2482_chromosome | - | 193056 | 194789 | | 0.554238762 | 1.959795 | 1.636108 | cation transport |
| B7L4D2 | Putative amino acid sodium/proton tr | TY-2482_chromosome | - | 4039829 | 4041256 | | 2.820626583 | 33.22098 | 31.65854 | cation transport |
| B7L5A9 | Zinc transport protein ZntB | TY-2482_chromosome | + | 404256 | 405236 | | 1.511125957 | 11.72214 | 10.71113 | cation transport |
| B7LGF1 | Membrane spanning protein in TonB- | TY-2482_chromosome | - | 2407715 | 2408137 | | 4.59549753 | 86.8374 | 84.17806 | cation transport |
| B7LGF2 | Membrane spanning protein in TonB- | TY-2482_chromosome | - | 2408147 | 2408878 | | 5.284353313 | 35.21642 | 33.5905 | cation transport |
| B7L8H2 | Iron-enterobactin transporter subunit | TY-2482_chromosome | - | 4677918 | 4678907 | | 2.844657615 | 34.07679 | 32.493 | cation transport |
| B7L4T5 | Ferrous iron transporter, protein A | TY-2482_chromosome | + | 2779978 | 2780202 | | 5.889806738 | 105.0159 | 102.0555 | cation transport |
| B7LHJ8 | Membrane spanning protein in TonB- | TY-2482_chromosome | + | 262619 | 263335 | | 2.981596985 | 40.82219 | 39.07666 | cation transport |
| B7L4T8 | Fused ferrous iron transporter, protei | TY-2482_chromosome | + | 2780222 | 2782588 | | 4.566232615 | 24.04906 | 22.65923 | cation transport |
| B7L5T0 | Nickel transporter subunit ; membran | TY-2482_chromosome | + | 2857443 | 2858384 | | 3.64134235 | 52.15683 | 50.22988 | cation transport |
| B7L5T1 | Nickel transporter subunit ; membran | TY-2482_chromosome | + | 2858384 | 2859214 | | 3.327973735 | 45.43137 | 43.63534 | cation transport |
| B7L8G9 | Enterobactin synthase multienzyme c | TY-2482_chromosome | + | 4671876 | 4675754 | | 2.124103979 | 21.3749 | 20.05995 | cation transport |
| B7LB16 | Cation/acetate symporter ActP (Acetε | TY-2482_chromosome | - | 3626533 | 3628179 | | 2.070639216 | 20.83963 | 19.53247 | cation transport |
| B7LDV1 | Iron-dictrate transporter subunit ; mε | TY-2482_chromosome | - | 3928372 | 3929325 | | 1.538456665 | 11.60835 | 10.6051 | cation transport |
| B7L777 | Glutamate transporter | TY-2482_chromosome | - | 3105621 | 3106823 | | 1.195496573 | 7.264436 | 6.494393 | cation transport |
| B7LDV0 | Iron-dictrate transporter subunit ; mε | TY-2482_chromosome | - | 3929325 | 3930320 | | 1.462840926 | 11.89804 | 10.87918 | cation transport |
| B7LGL3 | Iron-hydroxamate transporter subuni | TY-2482_chromosome | + | 4203164 | 4203958 | | 1.430708399 | 10.35728 | 9.411429 | cation transport |
| B7LDV3 | Iron-dictrate transporter subunit ; pe | TY-2482_chromosome | - | 3930320 | 3931219 | | 1.306133709 | 8.701265 | 7.838493 | cation transport |
| B7LFC5 | Proline:sodium symporter | TY-2482_chromosome | + | 5239604 | 5241109 | | 2.005055336 | 17.10172 | 15.89262 | cation transport |
| B7L8H6 | Isochorismate synthase 1 (EC 5.4.4.2) | TY-2482_chromosome | + | 4682604 | 4683776 | | 1.732981479 | 8.875723 | 8.003838 | cation transport |
| B7L8H8 | Isochorismatase (EC 3.3.2.1) | TY-2482_chromosome | + | 4685413 | 4686267 | | 1.858563176 | 11.27069 | 10.28159 | cation transport |
| B7L7A3 | Putative monovalent cation:proton ar | TY-2482_chromosome | - | 4569111 | 4570784 | | 0.622033444 | 2.425104 | 2.0502 | cation transport |
| B7LDV4 | Ferric citrate outer membrane transp | TY-2482_chromosome | - | 3931267 | 3933588 | | 0.968853273 | 1.922843 | 1.603942 | cation transport |
| B7L668 | Cytochrome o ubiquinol oxidase subu | TY-2482_chromosome | - | 4516200 | 4518188 | | 0.780237208 | 1.166009 | 0.947729 | cation transport |
| B7LDU9 | Iron-dictrate transporter subunit ; AT | TY-2482_chromosome | - | 3927604 | 3928368 | | 1.929944586 | 14.64244 | 13.51712 | cation transport |
| B7LHJ6 | Voltage-gated potassium channel | TY-2482_chromosome | - | 260549 | 261799 | | 1.20031033 | 7.225938 | 6.459243 | cation transport |
| B7L8G6 | Iron-enterobactin outer membrane tr | TY-2482_chromosome | - | 4667976 | 4670213 | | 1.208983995 | 7.575767 | 6.78741 | cation transport |
| B7LGI2 | Zinc transporter ZupT | TY-2482_chromosome | + | 2437213 | 2437983 | | 0.941848202 | 5.944562 | 5.255098 | cation transport |
| B7L9X6 | Putative uncharacterized protein yohI | TY-2482_chromosome | - | 1335586 | 1335855 | | 1.19375681 | 6.505583 | 5.781745 | cation transport |
| B7LCE3 | Manganese transport protein mntH | TY-2482_chromosome | - | 1667945 | 1669180 | | 0.895279526 | 4.473164 | 3.895885 | cation transport |
| B7LB62 | Melibiose:sodium symporter | TY-2482_chromosome | + | 3679115 | 3680521 | | 0.452598794 | 1.831651 | 1.525259 | cation transport |
| B7L7A9 | Copper transporter (EC 3.6.3.4) | TY-2482_chromosome | - | 4576222 | 4578723 | | 0.368677901 | 1.139836 | 0.923753 | cation transport |
| B7L8H7 | 2,3-dihydroxybenzoate-AMP ligase cc | TY-2482_chromosome | + | 4683789 | 4685396 | | 1.375699176 | 9.964621 | 9.03444 | cation transport |
| B7LC88 | Putative TonB-dependent iron outer r | TY-2482_chromosome | - | 4936966 | 4939245 | | 0.884159179 | 5.316768 | 4.670681 | cation transport |
| B7LAH7 | Ferric iron-catecholate outer membra | TY-2482_chromosome | - | 1395728 | 1397716 | | 0.953269991 | 6.076171 | 5.379668 | cation transport |
| B7LBU7 | L-lysine 6-monooxygenase (Lysine N(ε | TY-2482_chromosome | + | 3722992 | 3724326 | | 1.390584492 | 10.76678 | 9.802915 | cation transport |

| | | | | | | | | | |
|--------|------------------------------------------|--------------------|---|---------|---------|--------------|----------|----------|------------------|
| B7L8H9 | 2,3-dihydro-2,3-dihydroxybenzoate d | TY-2482_chromosome | + | 4686270 | 4687013 | 1.40645997 | 10.55797 | 9.600193 | cation transport |
| B7LDV2 | RNA polymerase sigma factor | TY-2482_chromosome | - | 3934628 | 3935146 | 2.309260556 | 25.46949 | 24.05566 | cation transport |
| B7L8H5 | Iron-enterobactin transporter subunit | TY-2482_chromosome | - | 4681276 | 4682229 | 2.070353499 | 20.46609 | 19.16658 | cation transport |
| B7LD40 | Putative transport protein YbjL | TY-2482_chromosome | - | 4986993 | 4988675 | 0.476528814 | 1.742071 | 1.449335 | cation transport |
| B7LGL2 | Ferrichrome outer membrane transp | TY-2482_chromosome | + | 4200870 | 4203110 | 2.726899864 | 35.27404 | 33.64407 | cation transport |
| B7L8H3 | Iron-enterobactin transporter subunit | TY-2482_chromosome | - | 4678907 | 4679908 | 3.497938547 | 48.49455 | 46.62759 | cation transport |
| B7L8H1 | Iron-enterobactin transporter subunit | TY-2482_chromosome | - | 4677106 | 4677918 | 3.021668433 | 37.45251 | 35.77544 | cation transport |
| B7LGL4 | Iron-hydroxamate transporter subuni | TY-2482_chromosome | + | 4203961 | 4204848 | 1.619578486 | 15.3084 | 14.15825 | cation transport |
| B7L5T2 | Nickel transporter subunit ; ATP-bindi | TY-2482_chromosome | + | 2859217 | 2859978 | 3.253948477 | 44.15301 | 42.36289 | cation transport |
| B7L5S9 | Nickel transporter subunit ; ATP-bindi | TY-2482_chromosome | + | 2859978 | 2860781 | 2.032926956 | 21.39717 | 20.08025 | cation transport |
| B7LB10 | Putative cation/proton antiporter | TY-2482_chromosome | + | 3623257 | 3624903 | 1.404460152 | 8.366676 | 7.519575 | cation transport |
| B7L4L4 | Bacterioferritin-associated ferredoxin | TY-2482_chromosome | - | 2708808 | 2708999 | 2.047038836 | 18.37301 | 17.1303 | cation transport |
| B7LGL5 | Fused iron-hydroxamate transporter ; | TY-2482_chromosome | + | 4204848 | 4206827 | 1.533774158 | 13.37632 | 12.29216 | cation transport |
| B7LDV5 | Transmembrane signal transducer for | TY-2482_chromosome | - | 3933678 | 3934628 | 1.895532808 | 19.20956 | 17.94467 | cation transport |
| B7L8G7 | Enterobactin/ferric enterobactin este | TY-2482_chromosome | + | 4670534 | 4671655 | 2.217391716 | 21.54421 | 20.22132 | cation transport |
| B7LBE6 | Putative transporter | TY-2482_chromosome | - | 1543816 | 1545645 | 3.366687231 | 50.88799 | 48.97683 | cation transport |
| B7L824 | Putative transport protein YidE | TY-2482_chromosome | - | 3190861 | 3192519 | -0.168395258 | 0.355784 | 0.268729 | cation transport |
| B7L7R2 | Zinc transporter subunit: membrane c | TY-2482_chromosome | + | 1001550 | 1002332 | -0.320204625 | 0.984967 | 0.789813 | cation transport |
| B7L7V6 | Ferritin iron storage protein (Cytoplas | TY-2482_chromosome | + | 1094424 | 1094918 | -1.75646244 | 5.185944 | 4.549439 | cation transport |
| B7L888 | ATP synthase subunit a (ATP synthase | TY-2482_chromosome | - | 3252618 | 3253430 | -0.32047901 | 0.45948 | 0.350852 | cation transport |
| B7LGX9 | Calcium/sodium:proton antiporter | TY-2482_chromosome | - | 224007 | 225104 | -0.547417441 | 2.607883 | 2.212883 | cation transport |
| B7L8V3 | Flagellum-specific ATP synthase (EC 3 | TY-2482_chromosome | + | 1122341 | 1123711 | -2.019365399 | 19.09969 | 17.84001 | cation transport |
| B7LHW2 | Pantothenate:sodium symporter | TY-2482_chromosome | + | 2661833 | 2663281 | -0.756227588 | 3.656702 | 3.145032 | cation transport |
| B7L8C4 | Transcription termination factor Rho | TY-2482_chromosome | + | 3297889 | 3299145 | -1.65783242 | 4.783639 | 4.176217 | cation transport |
| B7LHY9 | NAD-binding component of TrK potas | TY-2482_chromosome | + | 2690661 | 2692034 | -1.204312547 | 8.590025 | 7.732332 | cation transport |
| B7L6I3 | Glutathione peroxidase | TY-2482_chromosome | - | 810856 | 811404 | -0.472003802 | 1.958205 | 1.634718 | cation transport |
| B7L972 | Magnesium/nickel/cobalt transporter | TY-2482_chromosome | + | 3335016 | 3335963 | -0.929578923 | 5.872159 | 5.186864 | cation transport |
| B7LCV2 | Magnesium transporter (EC 3.6.3.1) | TY-2482_chromosome | + | 3853696 | 3856389 | -1.471791003 | 12.94592 | 11.87653 | cation transport |
| B7LGE1 | Aldo-keto reductase | TY-2482_chromosome | + | 2405024 | 2406061 | -1.789980009 | 15.76125 | 14.59045 | cation transport |
| B7L7P3 | Putative uncharacterized protein yeb; | TY-2482_chromosome | - | 981858 | 982727 | -0.367268822 | 0.838026 | 0.666243 | cation transport |
| B7L7R0 | Zinc transporter subunit: periplasmic- | TY-2482_chromosome | - | 999790 | 1000719 | -0.74787641 | 3.939952 | 3.404458 | cation transport |
| B7L524 | Putative flagellin structural protein; p | TY-2482_chromosome | + | 4456981 | 4459866 | 1.296863632 | 9.063902 | 8.183431 | cell projection |
| B7LHG1 | Flagellar system protein | TY-2482_chromosome | - | 4312906 | 4314642 | 0.775946355 | 3.138266 | 2.68059 | cell projection |
| B7L7T3 | Flagellar export pore protein | TY-2482_chromosome | - | 1071530 | 1072675 | -1.644100213 | 12.6421 | 11.58913 | cell projection |
| B7L8W2 | Flagellar biosynthetic protein fliR | TY-2482_chromosome | + | 1128681 | 1129463 | -1.608325282 | 7.775404 | 6.972788 | cell projection |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107663 | 1107950 | -0.540299587 | 0.983264 | 0.788495 | cell projection |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107926 | 1108675 | -0.788604848 | 1.493723 | 1.230228 | cell projection |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107663 | 1107950 | -0.540299587 | 0.983264 | 0.788495 | cell projection |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107926 | 1108675 | -0.788604848 | 1.493723 | 1.230228 | cell projection |
| B7L8V5 | Flagellar hook-length control protein | TY-2482_chromosome | + | 1124173 | 1125297 | -2.22864103 | 20.49116 | 19.18975 | cell projection |

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|--------|------------------------------------------|--------------------|---|---------|---------|--------------|----------|----------|--------------------------|
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107663 | 1107950 | -0.540299587 | 0.983264 | 0.788495 | cell projection |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107926 | 1108675 | -0.788604848 | 1.493723 | 1.230228 | cell projection |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107663 | 1107950 | -0.540299587 | 0.983264 | 0.788495 | cell projection |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107926 | 1108675 | -0.788604848 | 1.493723 | 1.230228 | cell projection |
| B7L8T7 | Putative Flagellar hook-associated prc | TY-2482_chromosome | + | 1108923 | 1110335 | -0.913291902 | 5.060592 | 4.433059 | cell projection |
| B7LG16 | Flagellar hook-filament junction prote | TY-2482_chromosome | + | 106176 | 107816 | -1.051375038 | 6.646817 | 5.911234 | cell projection |
| B7LG10 | Flagellar hook protein | TY-2482_chromosome | + | 100375 | 101577 | -2.842122089 | 33.76889 | 32.19591 | cell projection |
| B7LG11 | Flagellar component of cell-proximal | TY-2482_chromosome | + | 101600 | 102352 | -2.85605793 | 34.85303 | 33.23111 | cell projection |
| B7LG08 | Flagellar component of cell-proximal | TY-2482_chromosome | + | 99239 | 99640 | -2.412738353 | 26.97364 | 25.5396 | cell projection |
| B7LG12 | Flagellar component of cell-distal por | TY-2482_chromosome | + | 102527 | 103306 | -3.198591603 | 40.81442 | 39.07415 | cell projection |
| B7LG17 | Flagellar hook-filament junction prote | TY-2482_chromosome | + | 107831 | 108781 | -1.216986275 | 9.689261 | 8.778104 | cell projection |
| B7L8V4 | Flagellar protein | TY-2482_chromosome | + | 1123733 | 1124173 | -2.362341742 | 19.41986 | 18.14968 | cell projection |
| B7L8V1 | Flagellar motor switching and energiz | TY-2482_chromosome | + | 1120667 | 1121659 | -1.501752902 | 12.14062 | 11.10966 | cell projection |
| B7LGV4 | Flagellar brake protein YcgR (Cyclic di | TY-2482_chromosome | - | 196514 | 197245 | -0.905261309 | 5.443705 | 4.788681 | cell projection |
| B7L7T2 | Putative flagellar export pore protein | TY-2482_chromosome | - | 1069459 | 1071534 | -1.721121873 | 16.15249 | 14.97315 | cell projection |
| B7L8V8 | Flagellar motor switching and energiz | TY-2482_chromosome | + | 1126875 | 1127285 | -2.462972409 | 27.41076 | 25.97152 | cell projection |
| B7L8V9 | Flagellar biosynthesis protein | TY-2482_chromosome | + | 1127291 | 1127653 | -2.257649185 | 24.29088 | 22.89635 | cell projection |
| B7L8W0 | Flagellar biosynthesis protein | TY-2482_chromosome | + | 1127656 | 1128390 | -2.209597051 | 21.44937 | 20.12848 | cell projection |
| B7L8V6 | Flagellar biosynthesis protein | TY-2482_chromosome | + | 1125405 | 1125866 | -2.167864853 | 21.26301 | 19.95002 | cell projection |
| B7L8V0 | Flagellar basal-body MS-ring and colla | TY-2482_chromosome | + | 1119016 | 1120671 | -1.722798175 | 16.07035 | 14.89245 | cell projection |
| B7L8T8 | Flagellar protein potentiates polymer | TY-2482_chromosome | + | 1110354 | 1110761 | -1.315322089 | 10.16834 | 9.233269 | cell projection |
| B7L8V7 | Flagellar motor switching and energiz | TY-2482_chromosome | + | 1125874 | 1126875 | -2.369755704 | 26.18246 | 24.76116 | cell projection |
| B7LBH5 | Flagella control of anti-sigma factor FI | TY-2482_chromosome | + | 1572303 | 1573295 | -1.016244854 | 6.574302 | 5.844886 | cell projection |
| B7LG07 | Flagellar component of cell-proximal | TY-2482_chromosome | + | 98819 | 99232 | -2.084601069 | 22.18933 | 20.85632 | cell projection |
| B7LG09 | Flagellar hook assembly protein | TY-2482_chromosome | + | 99655 | 100347 | -2.660640458 | 36.45637 | 34.80562 | cell projection |
| B7L609 | EAL domain containing protein involv | TY-2482_chromosome | - | 2947401 | 2948165 | -0.573835882 | 2.245371 | 1.889437 | cell projection |
| B7L8W1 | Flagellar biosynthesis protein | TY-2482_chromosome | + | 1128403 | 1128669 | -2.452854472 | 12.94898 | 11.8781 | cell projection |
| B7LG06 | Assembly protein for flagellar basal-b | TY-2482_chromosome | - | 98008 | 98664 | -1.121578941 | 6.353191 | 5.63734 | cell projection |
| B7L7U2 | Protein that enables flagellar motor r | TY-2482_chromosome | - | 1081816 | 1082739 | -0.224343206 | 0.561521 | 0.434802 | cell projection |
| B7L8V2 | Flagellar biosynthesis protein | TY-2482_chromosome | + | 1121655 | 1122338 | -1.475435517 | 10.39348 | 9.446782 | cell projection |
| B7L6W8 | Putative outer membrane lipoprotien | TY-2482_chromosome | + | 2992342 | 2992998 | 0.922439057 | 5.230059 | 4.588581 | ciliary or flagellar mot |
| B7L8V2 | Flagellar biosynthesis protein | TY-2482_chromosome | + | 1121655 | 1122338 | -1.475435517 | 10.39348 | 9.446782 | ciliary or flagellar mot |
| B7LG06 | Assembly protein for flagellar basal-b | TY-2482_chromosome | - | 98008 | 98664 | -1.121578941 | 6.353191 | 5.63734 | ciliary or flagellar mot |
| B7LG13 | Flagellar L-ring protein (Basal body L- | TY-2482_chromosome | + | 103362 | 104057 | -3.134687783 | 33.48293 | 31.91701 | ciliary or flagellar mot |
| B7LG12 | Flagellar component of cell-distal por | TY-2482_chromosome | + | 102527 | 103306 | -3.198591603 | 40.81442 | 39.07415 | ciliary or flagellar mot |
| B7LG17 | Flagellar hook-filament junction prote | TY-2482_chromosome | + | 107831 | 108781 | -1.216986275 | 9.689261 | 8.778104 | ciliary or flagellar mot |
| B7L8V1 | Flagellar motor switching and energiz | TY-2482_chromosome | + | 1120667 | 1121659 | -1.501752902 | 12.14062 | 11.10966 | ciliary or flagellar mot |
| B7LG08 | Flagellar component of cell-proximal | TY-2482_chromosome | + | 99239 | 99640 | -2.412738353 | 26.97364 | 25.5396 | ciliary or flagellar mot |
| B7LG14 | Flagellar P-ring protein (Basal body P- | TY-2482_chromosome | + | 104072 | 105166 | -3.046349046 | 37.74141 | 36.0552 | ciliary or flagellar mot |
| B7L8V8 | Flagellar motor switching and energiz | TY-2482_chromosome | + | 1126875 | 1127285 | -2.462972409 | 27.41076 | 25.97152 | ciliary or flagellar mot |

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|--------|------------------------------------------|--------------------|---|---------|---------|--------------|----------|----------|--------------------------|
| B7L8V0 | Flagellar basal-body MS-ring and colla | TY-2482_chromosome | + | 1119016 | 1120671 | -1.722798175 | 16.07035 | 14.89245 | ciliary or flagellar mot |
| B7L8V7 | Flagellar motor switching and energiz | TY-2482_chromosome | + | 1125874 | 1126875 | -2.369755704 | 26.18246 | 24.76116 | ciliary or flagellar mot |
| B7L8V6 | Flagellar biosynthesis protein | TY-2482_chromosome | + | 1125405 | 1125866 | -2.167864853 | 21.26301 | 19.95002 | ciliary or flagellar mot |
| B7LG07 | Flagellar component of cell-proximal | TY-2482_chromosome | + | 98819 | 99232 | -2.084601069 | 22.18933 | 20.85632 | ciliary or flagellar mot |
| B7LG15 | Muramidase | TY-2482_chromosome | + | 105169 | 106107 | -2.870174707 | 36.5643 | 34.90496 | ciliary or flagellar mot |
| B7L8V4 | Flagellar protein | TY-2482_chromosome | + | 1123733 | 1124173 | -2.362341742 | 19.41986 | 18.14968 | ciliary or flagellar mot |
| B7LG16 | Flagellar hook-filament junction prote | TY-2482_chromosome | + | 106176 | 107816 | -1.051375038 | 6.646817 | 5.911234 | ciliary or flagellar mot |
| B7LG10 | Flagellar hook protein | TY-2482_chromosome | + | 100375 | 101577 | -2.842122089 | 33.76889 | 32.19591 | ciliary or flagellar mot |
| B7LG11 | Flagellar component of cell-proximal | TY-2482_chromosome | + | 101600 | 102352 | -2.85605793 | 34.85303 | 33.23111 | ciliary or flagellar mot |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107663 | 1107950 | -0.540299587 | 0.983264 | 0.788495 | ciliary or flagellar mot |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107926 | 1108675 | -0.788604848 | 1.493723 | 1.230228 | ciliary or flagellar mot |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107663 | 1107950 | -0.540299587 | 0.983264 | 0.788495 | ciliary or flagellar mot |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107926 | 1108675 | -0.788604848 | 1.493723 | 1.230228 | ciliary or flagellar mot |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107663 | 1107950 | -0.540299587 | 0.983264 | 0.788495 | ciliary or flagellar mot |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107926 | 1108675 | -0.788604848 | 1.493723 | 1.230228 | ciliary or flagellar mot |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107663 | 1107950 | -0.540299587 | 0.983264 | 0.788495 | ciliary or flagellar mot |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107926 | 1108675 | -0.788604848 | 1.493723 | 1.230228 | ciliary or flagellar mot |
| B7L8W2 | Flagellar biosynthetic protein fliR | TY-2482_chromosome | + | 1128681 | 1129463 | -1.608325282 | 7.775404 | 6.972788 | flagellum |
| B7L8V4 | Flagellar protein | TY-2482_chromosome | + | 1123733 | 1124173 | -2.362341742 | 19.41986 | 18.14968 | flagellum |
| B7L7T3 | Flagellar export pore protein | TY-2482_chromosome | - | 1071530 | 1072675 | -1.644100213 | 12.6421 | 11.58913 | flagellum |
| B7LGV4 | Flagellar brake protein YcgR (Cyclic di | TY-2482_chromosome | - | 196514 | 197245 | -0.905261309 | 5.443705 | 4.788681 | flagellum |
| B7L7T2 | Putative flagellar export pore protein | TY-2482_chromosome | - | 1069459 | 1071534 | -1.721121873 | 16.15249 | 14.97315 | flagellum |
| B7L8V8 | Flagellar motor switching and energiz | TY-2482_chromosome | + | 1126875 | 1127285 | -2.462972409 | 27.41076 | 25.97152 | flagellum |
| B7L8V9 | Flagellar biosynthesis protein | TY-2482_chromosome | + | 1127291 | 1127653 | -2.257649185 | 24.29088 | 22.89635 | flagellum |
| B7L8W0 | Flagellar biosynthesis protein | TY-2482_chromosome | + | 1127656 | 1128390 | -2.209597051 | 21.44937 | 20.12848 | flagellum |
| B7L8T9 | Flagellar protein FliT | TY-2482_chromosome | + | 1110764 | 1111126 | -1.039346 | 6.749012 | 6.008221 | flagellum |
| B7L8V1 | Flagellar motor switching and energiz | TY-2482_chromosome | + | 1120667 | 1121659 | -1.501752902 | 12.14062 | 11.10966 | flagellum |
| B7L8V6 | Flagellar biosynthesis protein | TY-2482_chromosome | + | 1125405 | 1125866 | -2.167864853 | 21.26301 | 19.95002 | flagellum |
| B7L8V0 | Flagellar basal-body MS-ring and colla | TY-2482_chromosome | + | 1119016 | 1120671 | -1.722798175 | 16.07035 | 14.89245 | flagellum |
| B7L8T8 | Flagellar protein potentiates polymer | TY-2482_chromosome | + | 1110354 | 1110761 | -1.315322089 | 10.16834 | 9.233269 | flagellum |
| B7L8V7 | Flagellar motor switching and energiz | TY-2482_chromosome | + | 1125874 | 1126875 | -2.369755704 | 26.18246 | 24.76116 | flagellum |
| B7LBH5 | Flagella control of anti-sigma factor FI | TY-2482_chromosome | + | 1572303 | 1573295 | -1.016244854 | 6.574302 | 5.844886 | flagellum |
| B7LG07 | Flagellar component of cell-proximal | TY-2482_chromosome | + | 98819 | 99232 | -2.084601069 | 22.18933 | 20.85632 | flagellum |
| B7LG09 | Flagellar hook assembly protein | TY-2482_chromosome | + | 99655 | 100347 | -2.660640458 | 36.45637 | 34.80562 | flagellum |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107663 | 1107950 | -0.540299587 | 0.983264 | 0.788495 | flagellum |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107926 | 1108675 | -0.788604848 | 1.493723 | 1.230228 | flagellum |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107663 | 1107950 | -0.540299587 | 0.983264 | 0.788495 | flagellum |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107926 | 1108675 | -0.788604848 | 1.493723 | 1.230228 | flagellum |
| B7L8V5 | Flagellar hook-length control protein | TY-2482_chromosome | + | 1124173 | 1125297 | -2.22864103 | 20.49116 | 19.18975 | flagellum |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107663 | 1107950 | -0.540299587 | 0.983264 | 0.788495 | flagellum |

| | | | | | | | | | |
|--------|------------------------------------------|--------------------|---|---------|---------|--------------|----------|----------|-----------|
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107926 | 1108675 | -0.788604848 | 1.493723 | 1.230228 | flagellum |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107663 | 1107950 | -0.540299587 | 0.983264 | 0.788495 | flagellum |
| B7L8T6 | Flagellin | TY-2482_chromosome | - | 1107926 | 1108675 | -0.788604848 | 1.493723 | 1.230228 | flagellum |
| B7L8T7 | Putative Flagellar hook-associated prc | TY-2482_chromosome | + | 1108923 | 1110335 | -0.913291902 | 5.060592 | 4.433059 | flagellum |
| B7LG16 | Flagellar hook-filament junction prote | TY-2482_chromosome | + | 106176 | 107816 | -1.051375038 | 6.646817 | 5.911234 | flagellum |
| B7LG10 | Flagellar hook protein | TY-2482_chromosome | + | 100375 | 101577 | -2.842122089 | 33.76889 | 32.19591 | flagellum |
| B7LG11 | Flagellar component of cell-proximal | TY-2482_chromosome | + | 101600 | 102352 | -2.85605793 | 34.85303 | 33.23111 | flagellum |
| B7LG08 | Flagellar component of cell-proximal | TY-2482_chromosome | + | 99239 | 99640 | -2.412738353 | 26.97364 | 25.5396 | flagellum |
| B7LG12 | Flagellar component of cell-distal por | TY-2482_chromosome | + | 102527 | 103306 | -3.198591603 | 40.81442 | 39.07415 | flagellum |
| B7LG17 | Flagellar hook-filament junction prote | TY-2482_chromosome | + | 107831 | 108781 | -1.216986275 | 9.689261 | 8.778104 | flagellum |
| B7LG06 | Assembly protein for flagellar basal-b | TY-2482_chromosome | - | 98008 | 98664 | -1.121578941 | 6.353191 | 5.63734 | flagellum |
| B7L7U2 | Protein that enables flagellar motor r | TY-2482_chromosome | - | 1081816 | 1082739 | -0.224343206 | 0.561521 | 0.434802 | flagellum |
| B7L8V2 | Flagellar biosynthesis protein | TY-2482_chromosome | + | 1121655 | 1122338 | -1.475435517 | 10.39348 | 9.446782 | flagellum |
| B7L7T1 | Putative uncharacterized protein flhE | TY-2482_chromosome | - | 1069067 | 1069456 | -1.386000433 | 7.400901 | 6.624649 | flagellum |
| B7L609 | EAL domain containing protein involv | TY-2482_chromosome | - | 2947401 | 2948165 | -0.573835882 | 2.245371 | 1.889437 | flagellum |
| B7L8W1 | Flagellar biosynthesis protein | TY-2482_chromosome | + | 1128403 | 1128669 | -2.452854472 | 12.94898 | 11.8781 | flagellum |
| B7L524 | Putative flagellin structural protein; p | TY-2482_chromosome | + | 4456981 | 4459866 | 1.296863632 | 9.063902 | 8.183431 | flagellum |
| B7LG05 | Anti-sigma factor for FliA (Sigma 28) | TY-2482_chromosome | - | 97639 | 97929 | 0.255570115 | 0.768019 | 0.608684 | flagellum |
| B7LHG1 | Flagellar system protein | TY-2482_chromosome | - | 4312906 | 4314642 | 0.775946355 | 3.138266 | 2.68059 | flagellum |