Supplementary Table S6: Go annotation for the genes obtained within the SDR regions of chromosome 2 and 7.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Seq Name | Description | GO number | GO IDs | GO Names |
| Gorai.002G03260 | serine threonine- kinase WAG1-like | 3 | F:GO:0005524; F:GO:0004672; P:GO:0006468 | F:ATP binding; F:protein kinase activity; P:protein phosphorylation |
| Gorai.002G03280 | serine threonine- kinase | 3 | F:GO:0005524; P:GO:0046777; F:GO:0004674 | F:ATP binding; P:protein autophosphorylation; F:protein serine/threonine kinase activity |
| Gorai.002G03460 | G-type lectin S-receptor-like serine threonine- kinase At1g11330 | 5 | F:GO:0005524; P:GO:0048544; C:GO:0016020; F:GO:0004672; P:GO:0006468 | F:ATP binding; P:recognition of pollen; C:membrane; F:protein kinase activity; P:protein phosphorylation |
| Gorai.002G03540 | G-type lectin S-receptor-like serine threonine- kinase At1g11330 | 5 | F:GO:0005524; P:GO:0048544; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; P:recognition of pollen; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G03990 | rust resistance kinase Lr10-like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.002G04010 | rust resistance kinase Lr10-like | 4 | F:GO:0005524; C:GO:0016020; F:GO:0004672; P:GO:0006468 | F:ATP binding; C:membrane; F:protein kinase activity; P:protein phosphorylation |
| Gorai.002G04020 | serine threonine- kinase SRK2A-like | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G04100 | LEAF RUST 10 DISEASE-RESISTANCE LOCUS RECEPTOR-LIKE PROTEIN KINASE-like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004672; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:integral component of membrane; F:protein kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.002G04110 | rust resistance kinase Lr10-like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.002G04120 | rust resistance kinase Lr10-like | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G04150 | rust resistance kinase Lr10-like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.002G04180 | rust resistance kinase Lr10-like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.002G04200 | rust resistance kinase Lr10-like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.002G04210 | rust resistance kinase Lr10-like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.002G04230 | LEAF RUST 10 DISEASE-RESISTANCE LOCUS RECEPTOR-LIKE PROTEIN KINASE-like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.002G04260 | rust resistance kinase Lr10-like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.002G04270 | rust resistance kinase Lr10-like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.002G04440 | receptor-like serine threonine- kinase At1g78530 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G04530 | mitogen-activated kinase 19-like | 4 | F:GO:0005524; P:GO:0000165; F:GO:0004707; C:GO:0005622 | F:ATP binding; P:MAPK cascade; F:MAP kinase activity; C:intracellular |
| Gorai.002G04750 | rust resistance kinase Lr10-like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.002G04780 | rust resistance kinase Lr10-like | 5 | F:GO:0005524; C:GO:0016020; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.002G04790 | rust resistance kinase Lr10-like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.002G04910 | receptor kinase At3g47110 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004672; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein kinase activity; P:protein phosphorylation |
| Gorai.002G04940 | receptor kinase At3g47110 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G05110 | receptor kinase At3g47110 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G05130 | receptor kinase At3g47110 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G05170 | receptor kinase At3g47110 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G05180 | receptor kinase At3g47110 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G05220 | LEAF RUST 10 DISEASE-RESISTANCE LOCUS RECEPTOR-LIKE PROTEIN KINASE-like | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G05230 | LEAF RUST 10 DISEASE-RESISTANCE LOCUS RECEPTOR-LIKE PROTEIN KINASE-like | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G06430 | probable LRR receptor-like serine threonine- kinase At3g47570 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G06790 | serine threonine- kinase 26-like isoform X1 | 3 | F:GO:0005524; F:GO:0004672; P:GO:0006468 | F:ATP binding; F:protein kinase activity; P:protein phosphorylation |
| Gorai.002G06850 | phytosulfokine receptor 2 | 8 | F:GO:0004721; F:GO:0005524; F:GO:0032440; P:GO:0006470; C:GO:0016021; P:GO:0055114; F:GO:0004674; P:GO:0006468 | F:phosphoprotein phosphatase activity; F:ATP binding; F:2-alkenal reductase [NAD(P)] activity; P:protein dephosphorylation; C:integral component of membrane; P:oxidation-reduction process; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G06960 | G-type lectin S-receptor-like serine threonine- kinase At2g19130 | 6 | F:GO:0005524; P:GO:0048544; C:GO:0016021; F:GO:0004674; P:GO:0006468; C:GO:0005886 | F:ATP binding; P:recognition of pollen; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; C:plasma membrane |
| Gorai.002G08730 | serine threonine- kinase PBS1 | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G08880 | calcium-dependent kinase 33 | 4 | F:GO:0005524; F:GO:0005509; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:calcium ion binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G09100 | mitogen-activated kinase kinase kinase 18-like | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G09600 | probably inactive receptor kinase At5g41680 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004672; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein kinase activity; P:protein phosphorylation |
| Gorai.002G09610 | probable serine threonine- kinase WNK11 | 3 | F:GO:0005524; F:GO:0004672; P:GO:0006468 | F:ATP binding; F:protein kinase activity; P:protein phosphorylation |
| Gorai.002G10060 | probable L-type lectin-domain containing receptor kinase | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; F:GO:0030246; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; F:carbohydrate binding; P:protein phosphorylation |
| Gorai.002G10200 | serine threonine- kinase D6PK-like | 3 | F:GO:0005524; F:GO:0004672; P:GO:0006468 | F:ATP binding; F:protein kinase activity; P:protein phosphorylation |
| Gorai.002G10330 | probable LRR receptor-like serine threonine- kinase At4g26540 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G10440 | G-type lectin S-receptor-like serine threonine- kinase LECRK4 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G10710 | receptor kinase 1 | 6 | F:GO:0005524; P:GO:0048544; C:GO:0016021; F:GO:0004674; F:GO:0030246; P:GO:0006468 | F:ATP binding; P:recognition of pollen; C:integral component of membrane; F:protein serine/threonine kinase activity; F:carbohydrate binding; P:protein phosphorylation |
| Gorai.002G11230 | cyclin-dependent kinase B2-2 | 3 | F:GO:0005524; F:GO:0008353; P:GO:0006468 | F:ATP binding; F:RNA polymerase II carboxy-terminal domain kinase activity; P:protein phosphorylation |
| Gorai.002G11410 | serine threonine- kinase endoribonuclease IRE1b-like | 7 | F:GO:0005524; P:GO:0090501; C:GO:0016021; F:GO:0004540; F:GO:0004672; P:GO:0006397; P:GO:0006468 | F:ATP binding; P:RNA phosphodiester bond hydrolysis; C:integral component of membrane; F:ribonuclease activity; F:protein kinase activity; P:mRNA processing; P:protein phosphorylation |
| Gorai.002G11560 | probable serine threonine- kinase PBL21 | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G12250 | probable receptor kinase At5g15080 isoform X1 | 3 | F:GO:0005524; F:GO:0004672; P:GO:0006468 | F:ATP binding; F:protein kinase activity; P:protein phosphorylation |
| Gorai.002G13100 | probable LRR receptor-like serine threonine- kinase At3g47570 | 5 | F:GO:0005524; F:GO:0016491; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:oxidoreductase activity; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G13300 | probable LRR receptor-like serine threonine- kinase At3g47570 | 5 | F:GO:0005524; F:GO:0016491; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:oxidoreductase activity; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G13440 | probable inactive receptor kinase At5g67200 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004672; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein kinase activity; P:protein phosphorylation |
| Gorai.002G14480 | 3-phosphoinositide-dependent kinase 1 | 3 | F:GO:0005524; F:GO:0004672; P:GO:0006468 | F:ATP binding; F:protein kinase activity; P:protein phosphorylation |
| Gorai.002G14960 | BRASSINOSTEROID INSENSITIVE 1-like | 20 | P:GO:1900140; F:GO:0042803; P:GO:0009742; P:GO:0048657; P:GO:0060548; F:GO:0005496; F:GO:0004674; P:GO:0006468; P:GO:0009647; P:GO:0009911; C:GO:0005886; P:GO:0009729; F:GO:0005524; C:GO:0005768; P:GO:0001578; F:GO:0046982; P:GO:0048366; C:GO:0016021; P:GO:0010584; P:GO:0010224 | P:regulation of seedling development; F:protein homodimerization activity; P:brassinosteroid mediated signaling pathway; P:anther wall tapetum cell differentiation; P:negative regulation of cell death; F:steroid binding; F:protein serine/threonine kinase activity; P:protein phosphorylation; P:skotomorphogenesis; P:positive regulation of flower development; C:plasma membrane; P:detection of brassinosteroid stimulus; F:ATP binding; C:endosome; P:microtubule bundle formation; F:protein heterodimerization activity; P:leaf development; C:integral component of membrane; P:pollen exine formation; P:response to UV-B |
| Gorai.002G15360 |   |   |   |   |
| Gorai.002G16110 | probable serine threonine- kinase PBL28 | 5 | F:GO:0005524; P:GO:0000165; P:GO:0000186; F:GO:0004709; C:GO:0005622 | F:ATP binding; P:MAPK cascade; P:activation of MAPKK activity; F:MAP kinase kinase kinase activity; C:intracellular |
| Gorai.002G16310 | probable serine threonine- kinase At1g09600 | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G17870 | mitogen-activated kinase 17-like isoform X1 | 5 | F:GO:0005524; P:GO:0000165; F:GO:0004707; P:GO:0046777; C:GO:0005622 | F:ATP binding; P:MAPK cascade; F:MAP kinase activity; P:protein autophosphorylation; C:intracellular |
| Gorai.002G18850 | mitogen-activated kinase kinase 9-like | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G19770 | probable receptor-like serine threonine- kinase At5g57670 | 5 | F:GO:0005524; F:GO:0004672; P:GO:0006468; P:GO:0006950; F:GO:0016787 | F:ATP binding; F:protein kinase activity; P:protein phosphorylation; P:response to stress; F:hydrolase activity |
| Gorai.002G21190 | receptor kinase HAIKU2 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G21480 | serine threonine- kinase At5g23170 | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G21810 | shaggy-related kinase kappa | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G22400 | probable L-type lectin-domain containing receptor kinase | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; F:GO:0030246; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; F:carbohydrate binding; P:protein phosphorylation |
| Gorai.002G22410 | probable L-type lectin-domain containing receptor kinase | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; F:GO:0030246; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; F:carbohydrate binding; P:protein phosphorylation |
| Gorai.002G22940 | serine threonine- kinase Nek6-like isoform X1 | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G24360 | leucine-rich repeat receptor kinase PXC1 | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004672; P:GO:0006468; C:GO:0005886 | F:ATP binding; C:integral component of membrane; F:protein kinase activity; P:protein phosphorylation; C:plasma membrane |
| Gorai.002G24410 | G-type lectin S-receptor-like serine threonine- kinase LECRK3 | 3 | F:GO:0005524; F:GO:0004672; P:GO:0006468 | F:ATP binding; F:protein kinase activity; P:protein phosphorylation |
| Gorai.002G24440 | kinase dsk1 | 4 | F:GO:0005524; P:GO:0006979; F:GO:0004674; P:GO:0006468 | F:ATP binding; P:response to oxidative stress; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.002G24920 | L-type lectin-domain containing receptor kinase -like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; F:GO:0030246; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; F:carbohydrate binding; P:protein phosphorylation |
| Gorai.002G25670 | L-type lectin-domain containing receptor kinase -like | 6 | F:GO:0005524; C:GO:0016021; F:GO:0004693; P:GO:0051726; F:GO:0030246; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:cyclin-dependent protein serine/threonine kinase activity; P:regulation of cell cycle; F:carbohydrate binding; P:protein phosphorylation |
| Gorai.002G26020 | probable LRR receptor-like serine threonine- kinase At3g47570 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G00900 | LRR receptor-like serine threonine- kinase ERL1 | 6 | F:GO:0004721; F:GO:0005524; P:GO:0006470; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:phosphoprotein phosphatase activity; F:ATP binding; P:protein dephosphorylation; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G01190 | SNF1-related kinase catalytic subunit alpha KIN10 | 10 | F:GO:0005524; P:GO:0003006; P:GO:0009738; P:GO:0009594; P:GO:0010260; P:GO:0080022; P:GO:0010050; P:GO:0010182; F:GO:0004674; P:GO:0006468 | F:ATP binding; P:developmental process involved in reproduction; P:abscisic acid-activated signaling pathway; P:detection of nutrient; P:animal organ senescence; P:primary root development; P:vegetative phase change; P:sugar mediated signaling pathway; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G01790 | probable receptor kinase At1g33260 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004672; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein kinase activity; P:protein phosphorylation |
| Gorai.007G02010 | serine threonine- kinase hippo-like isoform X1 | 3 | F:GO:0005524; F:GO:0004672; P:GO:0006468 | F:ATP binding; F:protein kinase activity; P:protein phosphorylation |
| Gorai.007G02500 | calcium-dependent kinase 3-like isoform X1 | 11 | F:GO:0005524; P:GO:0009738; P:GO:0009651; P:GO:0010119; F:GO:0005509; C:GO:0005829; P:GO:0046777; P:GO:0010359; F:GO:0004674; C:GO:0005773; C:GO:0005886 | F:ATP binding; P:abscisic acid-activated signaling pathway; P:response to salt stress; P:regulation of stomatal movement; F:calcium ion binding; C:cytosol; P:protein autophosphorylation; P:regulation of anion channel activity; F:protein serine/threonine kinase activity; C:vacuole; C:plasma membrane |
| Gorai.007G02980 | probable serine threonine- kinase cdc7 isoform X1 | 4 | F:GO:0005524; C:GO:0016020; F:GO:0004672; P:GO:0006468 | F:ATP binding; C:membrane; F:protein kinase activity; P:protein phosphorylation |
| Gorai.007G03510 | calcium-dependent kinase 10 | 4 | F:GO:0005524; F:GO:0005509; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:calcium ion binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G03520 | LRR receptor-like serine threonine- kinase FEI 2 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G03880 | probable LRR receptor-like serine threonine- kinase At1g74360 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G05000 | mitogen-activated kinase 7 | 4 | F:GO:0005524; P:GO:0000165; F:GO:0004707; C:GO:0005622 | F:ATP binding; P:MAPK cascade; F:MAP kinase activity; C:intracellular |
| Gorai.007G05160 | lysM domain receptor-like kinase 4 | 7 | F:GO:0005524; F:GO:0008061; P:GO:0045087; C:GO:0016021; F:GO:0004672; P:GO:0006468; C:GO:0005886 | F:ATP binding; F:chitin binding; P:innate immune response; C:integral component of membrane; F:protein kinase activity; P:protein phosphorylation; C:plasma membrane |
| Gorai.007G05170 | lysM domain receptor-like kinase 4 | 7 | F:GO:0005524; F:GO:0008061; P:GO:0045087; C:GO:0016021; F:GO:0004672; P:GO:0006468; C:GO:0005886 | F:ATP binding; F:chitin binding; P:innate immune response; C:integral component of membrane; F:protein kinase activity; P:protein phosphorylation; C:plasma membrane |
| Gorai.007G05180 | serine threonine receptor-like kinase NFP | 4 | F:GO:0005524; P:GO:0018108; F:GO:0004713; C:GO:0016021 | F:ATP binding; P:peptidyl-tyrosine phosphorylation; F:protein tyrosine kinase activity; C:integral component of membrane |
| Gorai.007G05300 | serine threonine- kinase SRK2I-like | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G05330 | mitogen-activated kinase kinase kinase 3-like | 4 | F:GO:0005524; P:GO:0046777; F:GO:0004674; C:GO:0005886 | F:ATP binding; P:protein autophosphorylation; F:protein serine/threonine kinase activity; C:plasma membrane |
| Gorai.007G05610 | casein kinase II subunit alpha-2 | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G05830 | receptor-like cytosolic serine threonine- kinase RBK1 | 3 | F:GO:0005524; F:GO:0004672; P:GO:0006468 | F:ATP binding; F:protein kinase activity; P:protein phosphorylation |
| Gorai.007G05990 | serine threonine- kinase SAPK2 | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G06050 | probable LRR receptor-like serine threonine- kinase At5g10290 isoform X1 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G06280 | BRASSINOSTEROID INSENSITIVE 1 | 20 | P:GO:1900140; F:GO:0042803; P:GO:0009742; P:GO:0048657; P:GO:0060548; F:GO:0005496; F:GO:0004674; P:GO:0006468; P:GO:0009647; P:GO:0009911; C:GO:0005886; P:GO:0009729; F:GO:0005524; C:GO:0005768; P:GO:0001578; F:GO:0046982; P:GO:0048366; C:GO:0016021; P:GO:0010584; P:GO:0010224 | P:regulation of seedling development; F:protein homodimerization activity; P:brassinosteroid mediated signaling pathway; P:anther wall tapetum cell differentiation; P:negative regulation of cell death; F:steroid binding; F:protein serine/threonine kinase activity; P:protein phosphorylation; P:skotomorphogenesis; P:positive regulation of flower development; C:plasma membrane; P:detection of brassinosteroid stimulus; F:ATP binding; C:endosome; P:microtubule bundle formation; F:protein heterodimerization activity; P:leaf development; C:integral component of membrane; P:pollen exine formation; P:response to UV-B |
| Gorai.007G06380 | serine threonine- kinase ATG1t isoform X1 | 3 | F:GO:0005524; F:GO:0004683; P:GO:0006468 | F:ATP binding; F:calmodulin-dependent protein kinase activity; P:protein phosphorylation |
| Gorai.007G07190 | serine threonine- kinase CDL1-like | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G07310 | LRR receptor-like serine threonine- kinase RPK2 | 5 | F:GO:0005524; F:GO:0016491; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:oxidoreductase activity; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G07540 | kinase PVPK-1-like | 3 | F:GO:0005524; F:GO:0004672; P:GO:0006468 | F:ATP binding; F:protein kinase activity; P:protein phosphorylation |
| Gorai.007G07560 | mitogen-activated kinase kinase 3 | 7 | F:GO:0005524; P:GO:0000165; P:GO:0000187; P:GO:0009814; F:GO:0004708; F:GO:0004707; C:GO:0005622 | F:ATP binding; P:MAPK cascade; P:activation of MAPK activity; P:defense response, incompatible interaction; F:MAP kinase kinase activity; F:MAP kinase activity; C:intracellular |
| Gorai.007G07630 | serine threonine- kinase BLUS1-like | 4 | F:GO:0005524; F:GO:0004672; P:GO:0006468; C:GO:0005886 | F:ATP binding; F:protein kinase activity; P:protein phosphorylation; C:plasma membrane |
| Gorai.007G07870 | probable receptor kinase At5g15080 isoform X1 | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G08020 | SNF1-related kinase catalytic subunit alpha KIN10 | 10 | F:GO:0005524; P:GO:0003006; P:GO:0009738; P:GO:0009594; P:GO:0010260; P:GO:0080022; P:GO:0010050; P:GO:0010182; F:GO:0004674; P:GO:0006468 | F:ATP binding; P:developmental process involved in reproduction; P:abscisic acid-activated signaling pathway; P:detection of nutrient; P:animal organ senescence; P:primary root development; P:vegetative phase change; P:sugar mediated signaling pathway; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G08300 | LRR receptor-like serine threonine- kinase RPK2 | 9 | F:GO:0005524; P:GO:0048653; C:GO:0016021; F:GO:0004674; P:GO:0006468; P:GO:0009846; P:GO:0009945; P:GO:0048508; P:GO:0009942 | F:ATP binding; P:anther development; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; P:pollen germination; P:radial axis specification; P:embryonic meristem development; P:longitudinal axis specification |
| Gorai.007G09310 | receptor-like serine threonine- kinase At2g45590 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G09610 | shaggy-related kinase theta-like isoform X2 | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G10130 | calmodulin-binding receptor-like cytoplasmic kinase 2 | 4 | F:GO:0005524; P:GO:0009555; F:GO:0004674; P:GO:0006468 | F:ATP binding; P:pollen development; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G10240 | probable serine threonine- kinase At1g01540 | 6 | F:GO:0005524; P:GO:0000165; P:GO:0000186; C:GO:0016021; F:GO:0004709; C:GO:0005622 | F:ATP binding; P:MAPK cascade; P:activation of MAPKK activity; C:integral component of membrane; F:MAP kinase kinase kinase activity; C:intracellular |
| Gorai.007G10630 | SUPPRESSOR OF PHYA-105 1 isoform X1 | 3 | F:GO:0005524; F:GO:0004672; P:GO:0006468 | F:ATP binding; F:protein kinase activity; P:protein phosphorylation |
| Gorai.007G11160 | CDPK-related kinase 3-like isoform X1 | 4 | F:GO:0005524; F:GO:0005509; F:GO:0004683; P:GO:0006468 | F:ATP binding; F:calcium ion binding; F:calmodulin-dependent protein kinase activity; P:protein phosphorylation |
| Gorai.007G11210 | CBL-interacting serine threonine- kinase 9-like isoform X1 | 4 | F:GO:0005524; P:GO:0007165; F:GO:0004674; P:GO:0006468 | F:ATP binding; P:signal transduction; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G11400 | serine threonine- kinase ATG1a-like isoform X1 | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G12970 | wee1 kinase | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G13300 | receptor-like cytosolic serine threonine- kinase RBK2 | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G13310 | probable LRR receptor-like serine threonine- kinase RKF3 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G14770 | serine threonine- kinase 38-like isoform X1 | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G14780 | casein kinase I-like | 4 | F:GO:0005524; P:GO:0046777; C:GO:0055028; F:GO:0004674 | F:ATP binding; P:protein autophosphorylation; C:cortical microtubule; F:protein serine/threonine kinase activity |
| Gorai.007G14890 | MDIS1-interacting receptor like kinase 2-like | 8 | F:GO:0005524; P:GO:0000165; P:GO:0000186; F:GO:0032440; C:GO:0016021; P:GO:0055114; F:GO:0004709; C:GO:0005622 | F:ATP binding; P:MAPK cascade; P:activation of MAPKK activity; F:2-alkenal reductase [NAD(P)] activity; C:integral component of membrane; P:oxidation-reduction process; F:MAP kinase kinase kinase activity; C:intracellular |
| Gorai.007G15370 | probable serine threonine- kinase PBL26 | 4 | F:GO:0005524; P:GO:0018108; F:GO:0004715; F:GO:0004674 | F:ATP binding; P:peptidyl-tyrosine phosphorylation; F:non-membrane spanning protein tyrosine kinase activity; F:protein serine/threonine kinase activity |
| Gorai.007G15730 | serine threonine- kinase MHK-like isoform X1 | 3 | F:GO:0005524; F:GO:0004672; P:GO:0006468 | F:ATP binding; F:protein kinase activity; P:protein phosphorylation |
| Gorai.007G16730 | probable serine threonine- kinase WNK11 isoform X2 | 3 | F:GO:0005524; F:GO:0004672; P:GO:0006468 | F:ATP binding; F:protein kinase activity; P:protein phosphorylation |
| Gorai.007G17590 | receptor kinase FERONIA | 3 | F:GO:0005524; F:GO:0004672; P:GO:0006468 | F:ATP binding; F:protein kinase activity; P:protein phosphorylation |
| Gorai.007G17610 | receptor kinase FERONIA | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G18250 | LEAF RUST 10 DISEASE-RESISTANCE LOCUS RECEPTOR-LIKE PROTEIN KINASE-like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.007G18270 | LEAF RUST 10 DISEASE-RESISTANCE LOCUS RECEPTOR-LIKE PROTEIN KINASE-like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.007G18290 | LEAF RUST 10 DISEASE-RESISTANCE LOCUS RECEPTOR-LIKE PROTEIN KINASE-like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.007G18310 | LEAF RUST 10 DISEASE-RESISTANCE LOCUS RECEPTOR-LIKE PROTEIN KINASE-like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.007G18320 | LEAF RUST 10 DISEASE-RESISTANCE LOCUS RECEPTOR-LIKE PROTEIN KINASE-like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.007G18330 | LEAF RUST 10 DISEASE-RESISTANCE LOCUS RECEPTOR-LIKE PROTEIN KINASE-like | 4 | F:GO:0005524; C:GO:0016020; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G18360 | LEAF RUST 10 DISEASE-RESISTANCE LOCUS RECEPTOR-LIKE PROTEIN KINASE-like isoform X2 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G18390 | LEAF RUST 10 DISEASE-RESISTANCE LOCUS RECEPTOR-LIKE PROTEIN KINASE-like | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G18480 | receptor kinase ZAR1 | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004672; P:GO:0006468; C:GO:0005886 | F:ATP binding; C:integral component of membrane; F:protein kinase activity; P:protein phosphorylation; C:plasma membrane |
| Gorai.007G18600 | probable inactive receptor kinase RLK902 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004672; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein kinase activity; P:protein phosphorylation |
| Gorai.007G18630 | NSP-INTERACTING KINASE 1-like | 6 | F:GO:0005524; F:GO:0032440; C:GO:0016021; P:GO:0055114; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:2-alkenal reductase [NAD(P)] activity; C:integral component of membrane; P:oxidation-reduction process; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G18790 | receptor kinase TMK1 | 6 | F:GO:0005524; C:GO:0016021; P:GO:0007178; P:GO:0006468; C:GO:0005886; F:GO:0004675 | F:ATP binding; C:integral component of membrane; P:transmembrane receptor protein serine/threonine kinase signaling pathway; P:protein phosphorylation; C:plasma membrane; F:transmembrane receptor protein serine/threonine kinase activity |
| Gorai.007G19450 | calcium-dependent kinase 28-like | 12 | C:GO:0005634; F:GO:0005524; F:GO:0005516; P:GO:0009738; C:GO:0005737; F:GO:0005509; P:GO:0046777; F:GO:0004683; P:GO:0018105; C:GO:0005886; P:GO:0035556; F:GO:0009931 | C:nucleus; F:ATP binding; F:calmodulin binding; P:abscisic acid-activated signaling pathway; C:cytoplasm; F:calcium ion binding; P:protein autophosphorylation; F:calmodulin-dependent protein kinase activity; P:peptidyl-serine phosphorylation; C:plasma membrane; P:intracellular signal transduction; F:calcium-dependent protein serine/threonine kinase activity |
| Gorai.007G19670 | probable LRR receptor-like serine threonine- kinase At4g36180 | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004672; P:GO:0006468; C:GO:0005886 | F:ATP binding; C:integral component of membrane; F:protein kinase activity; P:protein phosphorylation; C:plasma membrane |
| Gorai.007G21010 | serine threonine- kinase SRK2I-like | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G21070 | CDPK-related kinase 5-like | 4 | F:GO:0005524; F:GO:0005509; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:calcium ion binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G21390 | mitogen-activated kinase kinase kinase YODA-like | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G21450 | probable serine threonine- kinase At1g01540 | 5 | F:GO:0005524; C:GO:0016021; P:GO:0046777; F:GO:0004674; C:GO:0005886 | F:ATP binding; C:integral component of membrane; P:protein autophosphorylation; F:protein serine/threonine kinase activity; C:plasma membrane |
| Gorai.007G21650 | probable inactive receptor kinase At5g67200 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004672; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein kinase activity; P:protein phosphorylation |
| Gorai.007G22220 | casein kinase II subunit alpha-like | 4 | F:GO:0005524; C:GO:0005829; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:cytosol; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G22870 | leucine-rich repeat receptor-like serine threonine- kinase BAM1 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004672; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein kinase activity; P:protein phosphorylation |
| Gorai.007G23100 | L-type lectin-domain containing receptor kinase -like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; F:GO:0030246; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; F:carbohydrate binding; P:protein phosphorylation |
| Gorai.007G23110 | L-type lectin-domain containing receptor kinase -like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; F:GO:0030246; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; F:carbohydrate binding; P:protein phosphorylation |
| Gorai.007G23120 | L-type lectin-domain containing receptor kinase -like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; F:GO:0030246; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; F:carbohydrate binding; P:protein phosphorylation |
| Gorai.007G23130 | L-type lectin-domain containing receptor kinase -like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; F:GO:0030246; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; F:carbohydrate binding; P:protein phosphorylation |
| Gorai.007G23140 | L-type lectin-domain containing receptor kinase -like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; F:GO:0030246; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; F:carbohydrate binding; P:protein phosphorylation |
| Gorai.007G23150 | L-type lectin-domain containing receptor kinase -like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; F:GO:0030246; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; F:carbohydrate binding; P:protein phosphorylation |
| Gorai.007G23480 | serine threonine- kinase SAPK2-like isoform X1 | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G23650 | probable LRR receptor-like serine threonine- kinase At5g10290 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G23800 | wall-associated receptor kinase-like 22 | 6 | F:GO:0005524; F:GO:0005509; C:GO:0016021; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; F:calcium ion binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.007G24400 | probable inactive receptor kinase At5g10020 | 6 | F:GO:0005524; C:GO:0016021; C:GO:0005829; F:GO:0004672; P:GO:0006468; C:GO:0005886 | F:ATP binding; C:integral component of membrane; C:cytosol; F:protein kinase activity; P:protein phosphorylation; C:plasma membrane |
| Gorai.007G24760 | dual specificity kinase YAK1-like isoform X1 | 6 | F:GO:0005524; C:GO:0009506; P:GO:0009737; C:GO:0005829; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:plasmodesma; P:response to abscisic acid; C:cytosol; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G24870 | LYK5 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004672; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein kinase activity; P:protein phosphorylation |
| Gorai.007G26710 | wall-associated receptor kinase-like 20 | 6 | F:GO:0005524; P:GO:0018108; F:GO:0004715; C:GO:0016021; F:GO:0004674; F:GO:0030247 | F:ATP binding; P:peptidyl-tyrosine phosphorylation; F:non-membrane spanning protein tyrosine kinase activity; C:integral component of membrane; F:protein serine/threonine kinase activity; F:polysaccharide binding |
| Gorai.007G27130 | probable leucine-rich repeat receptor kinase At5g63930 | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004672; P:GO:0006468; C:GO:0005886 | F:ATP binding; C:integral component of membrane; F:protein kinase activity; P:protein phosphorylation; C:plasma membrane |
| Gorai.007G27370 | leucine-rich repeat receptor kinase PXL1 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G27580 | casein kinase I-like isoform X1 | 8 | P:GO:0008360; C:GO:0005634; F:GO:0005524; C:GO:0005737; P:GO:0016055; F:GO:0004674; P:GO:0006897; P:GO:0018105 | P:regulation of cell shape; C:nucleus; F:ATP binding; C:cytoplasm; P:Wnt signaling pathway; F:protein serine/threonine kinase activity; P:endocytosis; P:peptidyl-serine phosphorylation |
| Gorai.007G27660 | phosphoenolpyruvate carboxylase kinase 1-like | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G28390 | serine threonine- kinase Nek2-like | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G28530 | probable serine threonine- kinase WNK9 | 3 | F:GO:0005524; F:GO:0004672; P:GO:0006468 | F:ATP binding; F:protein kinase activity; P:protein phosphorylation |
| Gorai.007G28720 | probable serine threonine- kinase At1g54610 isoform X1 | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G28950 | casein kinase 1 HD16 | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G29200 | probable LRR receptor-like serine threonine- kinase RKF3 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G29210 | probable LRR receptor-like serine threonine- kinase RKF3 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G29510 | serine threonine- kinase CDL1-like isoform X1 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G29670 | mitogen-activated kinase kinase kinase ANP1 isoform X2 | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G30850 | shaggy-related kinase alpha | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G30890 | probable receptor kinase At5g18500 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G31280 | G-type lectin S-receptor-like serine threonine- kinase RLK1 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G31300 | G-type lectin S-receptor-like serine threonine- kinase RLK1 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G31310 | G-type lectin S-receptor-like serine threonine- kinase LECRK4 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G31320 | G-type lectin S-receptor-like serine threonine- kinase LECRK4 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G31350 | serine threonine- kinase PBS1-like | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G32280 | probable serine threonine- kinase At1g54610 | 4 | F:GO:0005524; F:GO:0004674; P:GO:0006468; C:GO:0005886 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation; C:plasma membrane |
| Gorai.007G32290 | SPA1-RELATED 3-like isoform X1 | 3 | F:GO:0005524; F:GO:0004672; P:GO:0006468 | F:ATP binding; F:protein kinase activity; P:protein phosphorylation |
| Gorai.007G32600 | serine threonine- kinase | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G32980 | probable leucine-rich repeat receptor-like serine threonine- kinase At3g14840 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G33000 | probable leucine-rich repeat receptor-like serine threonine- kinase At3g14840 | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G33010 | L-type lectin-domain containing receptor kinase -like | 4 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G33230 | mitogen-activated kinase 19-like | 4 | F:GO:0005524; P:GO:0000165; F:GO:0004707; C:GO:0005622 | F:ATP binding; P:MAPK cascade; F:MAP kinase activity; C:intracellular |
| Gorai.007G33490 | LEAF RUST 10 DISEASE-RESISTANCE LOCUS RECEPTOR-LIKE PROTEIN KINASE-like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.007G33500 | LEAF RUST 10 DISEASE-RESISTANCE LOCUS RECEPTOR-LIKE PROTEIN KINASE-like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.007G33510 | rust resistance kinase Lr10-like | 5 | F:GO:0005524; C:GO:0016021; F:GO:0004674; P:GO:0006468; F:GO:0030247 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; P:protein phosphorylation; F:polysaccharide binding |
| Gorai.007G34310 | receptor-like cytosolic serine threonine- kinase RBK2 | 6 | C:GO:0005634; F:GO:0005524; C:GO:0005737; F:GO:0051020; F:GO:0004674; P:GO:0006468 | C:nucleus; F:ATP binding; C:cytoplasm; F:GTPase binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G34350 | casein kinase 1 HD16 | 3 | F:GO:0005524; F:GO:0004674; P:GO:0006468 | F:ATP binding; F:protein serine/threonine kinase activity; P:protein phosphorylation |
| Gorai.007G34670 | L-type lectin-domain containing receptor kinase -like | 6 | F:GO:0005524; C:GO:0016021; F:GO:0004674; F:GO:0030246; P:GO:0006468; C:GO:0005886 | F:ATP binding; C:integral component of membrane; F:protein serine/threonine kinase activity; F:carbohydrate binding; P:protein phosphorylation; C:plasma membrane |
| Gorai.007G36520 | mitogen-activated kinase kinase kinase 17-like | 3 | F:GO:0005524; F:GO:0004672; P:GO:0006468 | F:ATP binding; F:protein kinase activity; P:protein phosphorylation |
| Gorai.007G37090 | serine threonine- kinase D6PKL1-like | 3 | F:GO:0005524; F:GO:0004672; P:GO:0006468 | F:ATP binding; F:protein kinase activity; P:protein phosphorylation |
| Gorai.007G37690 | L-type lectin-domain containing receptor kinase | 5 | F:GO:0005524; C:GO:0016020; F:GO:0004674; F:GO:0030246; P:GO:0006468 | F:ATP binding; C:membrane; F:protein serine/threonine kinase activity; F:carbohydrate binding; P:protein phosphorylation |