

E3 ubiquitin-protein ligase RGLG1 (RGLG1), Recombinant Protein

Cat RP04817

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

Species mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana E3 ubiquitin-protein ligase RGLG1 (RGLG1)

Product Gene Name

RGLG1 recombinant protein

Product Synonym Gene Name

RGLG1

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

GGGNSKEESS SPSSSSWASH QSYYPQYGPDS YNYPPPPTYA PAPSPAPAPA PVPAPSPASS YGPQYSQEGY
ASQPNPPPPP TYAPAPSPAS SYGHQYSQEG YASAASQPNY PPPPSQSQVA DRKKFDRRYS KISDNYSSLL
QVSEALGRAG LESSNLIVGI DFTKSNEWTG AKSFNRKSLH HLSNTPNPYE QAITIIGRTL AAFDEDNLIP
CYGFGDASTH DQDVFSFYPE GRFCNGFEEV LARYREIVPQ LKLAGPTSFA PIEMAMTVV EQSSGQYHVL
VIIADGQVTR SVDTEHGRLS PQEQKTVDI VKASTLPLSI VLVGVGDGPW DMMQEFDDNI PARAFDNFQF
VNFTEIMSKN KDQSRKETEF ALSALMEIPP QYKATIELNL LGVRNGNIPQ RIPLPPPVQS GSSFSSSRIP
NFEPSVPYP FESKQMSSAD DIQLCPICLS NPKNMAFGCG HQTCCCEGPD LKVCPCICRAP IQTRIKLY

Sequence Positions

2-489, Full length protein

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

53,312 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

Protein Family

E3 ubiquitin-protein ligase

NCBI Accession

NP_001325948.1

NCBI GI

1063708822

NCBI GenBank Nucleotide

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1

mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

NCBI GeneID

819911

NCBI Official Full Name

RING domain ligase1

NCBI Official Symbol

RGLG1

NCBI Official Synonym Symbols

F4P13.19; F4P13_19; RING domain ligase1

NCBI Protein Information

RING domain ligase1

NCBI Summary

Encodes RGLG1 (RING domain ligase 1), a RING domain ubiquitin E3 ligase that negatively regulates the drought stress response by mediating ERF53 transcriptional activity.

UniProt Gene Name

RGLG1

UniProt Protein Name

E3 ubiquitin-protein ligase RGLG1

UniProt Synonym Protein Names

RING domain ligase 1

UniProt Primary Accession

Q9SS90

UniProt Related Accession

Q9SS90

UniProt Comments

E3 ubiquitin-protein ligase that mediates the formation of 'Lys-63'-linked ubiquitin chains. Regulates apical dominance by acting on the auxin transport proteins abundance (PubMed:17586653). Together with RGLG5, mediates the ubiquitination and subsequent proteasomal degradation of the target protein PP2CA. Functions as positive regulator of abscisic acid (ABA) signaling through ABA-dependent degradation of PP2CA, a major inhibitor of ABA signaling (PubMed:27577789). Acts as a negative regulator of drought stress response (PubMed:22095047).

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