Probable E3 ubiquitin-protein ligase ARI14 (ARI14), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP05369*

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Probable E3 ubiquitin-protein ligase ARI14 (ARI14) , partial

Product Gene Name
ARI14 recombinant protein

Product Synonym Gene Name
ARI14

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

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

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
59,010 Da

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

Protein Family
Probable E3 ubiquitin-protein ligase

NCBI Accession
NP_201178.1

NCBI GI
15242882

NCBI GenBank Nucleotide
NM_125768.1

NCBI GeneID
836493

NCBI Official Full Name
IBR domain-containing protein

NCBI Official Symbol
ARI14

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NCBI Official Synonym Symbols
ARABIDOPSIS ARIADNE 14; ARIADNE 14; ATARI14; MBK5.21; MBK5_21

NCBI Protein Information
IBR domain-containing protein

NCBI Summary
Encodes ARIADNE14 (ARI14), a putative ubiquitin E3 ligase. ARI14 and an inversely transcribed gene KPL generate a sperm-specific natural cis-antisense siRNA pair. In the absence of KPL, ARI14 RNA levels in sperm are increased and fertilization is impaired.

UniProt Gene Name
ARI14

UniProt Protein Name
Probable E3 ubiquitin-protein ligase ARI14

UniProt Synonym Protein Names
ARIADNE-like protein ARI14

UniProt Primary Accession
Q9FFP1

UniProt Related Accession
Q9FFP1

UniProt Comments
Might act as an E3 ubiquitin-protein ligase, or as part of E3 complex, which accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes and then transfers it to substrates (PubMed:12446796). Regulates negatively male gametophyte formation and double fertilization (PubMed:20478994).

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