

ATP-dependent zinc metalloprotease FTSH 5 (FTSH5), Recombinant Protein

Cat *RP05186*

Size *0.02 mg/ 0.1 mg/ 5x0.1 mg*

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* ATP-dependent zinc metalloprotease FTSH 5, chloroplastic (FTSH5)

Product Gene Name

FTSH5 recombinant protein

Product Synonym Gene Name

FTSH2; VAR1

Purity

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

Sequence

VNEPVQPPAP TITAEAQSPN LSTFGQNVLM TAPNPQAQSS DLPDGTQWRY SEFLNAVKKG KVERVKFSKD
GSVLQLTAVD NRRATVIVPN DPDLIDILAM NGVDISVSEG EGGNGLFDFI GNLLFPLLAF GGLFYLFRRG
QGGAGGPGGL GGPMDFGRSK SKFQEV PETG VTFGDVAGAD QAKLELQEVV DFLKNPDKYT ALGAKIPKGC
LLVGPPGTGK TLLARAVAGE AGVPFFSCAA SEFVELFVGV GASRVRDLFE KAKSKAPCIV FIDEIDAVGR
QRGAGMGGGN DEREQTINQL LTEMDFSGN SGVIVLAATN RPDVLD SALL RPGRFDRQVT VDRPDVAGRV
QILKVHSRGK AIGKDVDYEK VAR RTPGTG ADLQNL MNEA AILAAARRELK EISKDEISDA LERIIAGPEK
KNAV VSEEKK RLVAYHEAGH ALVGALMPEY DPAKISIIP RGQAGGLTFF APSEERLESG LYSRSYLENQ
MAVALGGRVA EEVIFGDENV TTGASNDFMQ VSRVARQMVE RFGFSKKIGQ VAVGGAGGNP FLGQSMSSQK
DYSMATADV VDAEVRELVEK AYVRAKEIT TQIDILHKLA QLLIEKETVD GEEFMSLFID GQAELYVS

Sequence Positions

77-704aa; full length protein

Format

Liquid containing glycerol

Host

Cell Free Expression

Molecular Weight

75,232 Da

Storage

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

Protein Family

ATP-dependent zinc metalloprotease

NCBI Accession

NP_568604.1

NCBI GI

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

ATP-dependent zinc metalloprotease FTSH 5 (FTSH5), Recombinant Protein

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Size *0.02 mg/ 0.1 mg/ 5x0.1 mg*

18422193

NCBI GenBank Nucleotide

NM_123592.3

NCBI GeneID

834232

NCBI Official Full Name

ATP-dependent zinc metalloprotease FTSH 5

NCBI Official Symbol

VAR1

NCBI Official Synonym Symbols

FTSH5; K5J14.13; K5J14_13; VAR1; VARIEGATED 1

NCBI Protein Information

ATP-dependent zinc metalloprotease FTSH 5

UniProt Gene Name

FTSH5

UniProt Synonym Gene Names

FTSH2; VAR1; AtFTSH5

UniProt Protein Name

ATP-dependent zinc metalloprotease FTSH 5, chloroplastic

UniProt Synonym Protein Names

Protein VARIEGATED 1

UniProt Entry Name

FTSH5_ARATH

UniProt Primary Accession

Q9FH02

UniProt Related Accession

Q9FH02

UniProt Comments

Part of a complex that function as an ATP-dependent zinc metalloproteinase. Involved in the thylakoid formation and in the removal of damaged D1 in the photosystem II, preventing cell death under high-intensity light conditions. Not involved in the degradation of the light-harvesting complex of photosystem II (LHC II) or in thermotolerance.

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