# ATP-dependent zinc metalloprotease FTSH 2 (FTSH2), Recombinant Protein



Cat RP05297

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 2, chloroplastic (FTSH2)

#### **Product Gene Name**

FTSH2 recombinant protein

### **Product Synonym Gene Name**

VAR2

### **Purity**

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

### Sequence

DEQGVSSSRM SYSRFLEYLD KDRVNKVDLY ENGTIAIVEA VSPELGNRVE RVRVQLPGLS QELLQKLRAK NIDFAAHNAQ EDQGSVLFNL IGNLAFPALL IGGLFLLSRR SGGGMGGPGG PGNPLQFGQS KAKFQMEPNT GVTFDDVAGV DEAKQDFMEV VEFLKKPERF TAVGAKIPKG VLLIGPPGTG KTLLAKAIAG EAGVPFFSIS GSEFVEMFVG VGASRVRDLF KKAKENAPCI VFVDEIDAVG RQRGTGIGGG NDEREQTLNQ LLTEMDGFEG NTGVIVVAAT NRADILDSAL LRPGRFDRQV SVDVPDVKGR TDILKVHAGN KKFDNDVSLE IIAMRTPGFS GADLANLLNE AAILAGRRAR TSISSKEIDD SIDRIVAGME GTVMTDGKSK SLVAYHEVGH AVCGTLTPGH DAVQKVTLIP RGQARGLTWF IPSDDPTLIS KQQLFARIVG GLGGRAAEEI IFGDSEVTTG AVGDLQQITG LARQMVTTFG MSDIGPWSLM DSSAQSDVIM RMMARNSMSE KLAEDIDSAV KKLSDSAYEI ALSHIKNNRE AMDKLVEVLL EKETIGGDEF RAILSEFTEI PPENRVPSST TTTPASAPTP AAV

## **Sequence Positions**

83-695aa; full length protein

#### **Format**

Liquid containing glycerol

#### Host

Cell Free Expression

# **Molecular Weight**

74,157 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 850156.1

### NCBI GI#

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967

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E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/

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30684767

#### NCBI GenBank Nucleotide #

NM\_179825.2

#### NCBI GenelD

817646

#### **NCBI Official Full Name**

ATP-dependent zinc metalloprotease FTSH 2

### **NCBI Official Symbol**

VAR2

### **NCBI Official Synonym Symbols**

F7F1.16; F7F1\_16; FTSH2; VAR2; VARIEGATED 2

#### **NCBI Protein Information**

ATP-dependent zinc metalloprotease FTSH 2

### **NCBI Summary**

Metalloprotease that functions in thylakoid membrane biogenesis. Involved in the repair of PSII following damaged incurred during photoinhibition. Forms a complex with VAR1. Mutants show a variegated phenotype, which decreases during development. Transcript and protein levels increase with light intensity.

#### **UniProt Gene Name**

FTSH2

## **UniProt Synonym Gene Names**

VAR2; AtFTSH2

#### **UniProt Protein Name**

ATP-dependent zinc metalloprotease FTSH 2, chloroplastic

# **UniProt Synonym Protein Names**

Protein VARIEGATED 2

# **UniProt Entry Name**

FTSH2\_ARATH

# UniProt Primary Accession #

O80860

# UniProt Secondary Accession #

Q56Z14; Q94AZ0

#### **UniProt Related Accession #**

O80860

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#### **UniProt Comments**

Part of a complex that function as an ATP-dependent zinc metallopeptidase. Involved in the thylakoid formation and in the removal of damaged D1 in the photosystem II, preventing cell death under high-intensity light conditions, but not involved in thermotolerance.

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