# **GPI-anchored protein LORELEI** (LRE), Recombinant Protein



Cat RP00255

Size 0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg

(Vaast)/ 0 02 ma (Raculovirus)/ 1 ma (F\_Coli)/ 0 02 ma

(Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg

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

# **Full Product Name**

Recombinant Arabidopsis thaliana GPI-anchored protein LORELEI (LRE)

### **Product Gene Name**

LRE recombinant protein

# **Purity**

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

# Sequence

SSISDGVFES QTSVSGRNLR HAKKKCEVNF EYMDYKVLTK RCKGPAFPAK ECCSAFKEFA CPYVSQINDM NSDCAQTMFS YMNIYGNYPT GLFANECRER KDGLVCPLPP LYSHNLNAS

# **Sequence Positions**

21-139, Full length protein

#### **Format**

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

E Coli or Yeast or Baculovirus or Mammalian Cell

# Molecular Weight

18,337 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**

GPI-anchored protein

# **NCBI Accession #**

NP\_001119062.1

# NCBI GI#

186513806

# NCBI GenBank Nucleotide #

NM 001125590.2

#### **NCBI GenelD**

6240393

### **NCBI Official Full Name**

Iorelei

# FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967 Tel: 1-631-637-0420

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NCBI Official Symbol 1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)/ 1 mg (Mammalian-Ce

LRE Cell

**NCBI Official Synonym Symbols** 

LORELEI

**NCBI Protein Information** 

lorelei

**NCBI Summary** 

Encodes a membrane localized (putative GPI-anchored) protein involved in fertilization. Loss of function mutations display defects in fertilization-around 25% of embryo sacs abort.

**UniProt Gene Name** 

**LRE** 

**UniProt Protein Name** 

GPI-anchored protein LORELEI

UniProt Primary Accession #

**B3GS44** 

UniProt Secondary Accession #

A0A0G7ZNQ5

**UniProt Related Accession #** 

B3GS44

**UniProt Comments** 

Female gametophyte-specific component of the signaling pathway required for fertilization. Required for reception of the pollen tube by the female gametophyte (PubMed:19028964, PubMed:26052747, PubMed:27081182). Acts specifically at the synergid cell surface for pollen tube reception (PubMed:26052747, PubMed:27081182). Plays a role in double fertilization and early seed development (PubMed:20163554). Component of the FER-regulated Rho GTPase signaling complex. Acts as a chaperone and coreceptor for FER. Required for localization of FER to the plasma membrane (PubMed:26052747).

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https://www.cd-biosciences.com/plant-protein/