

# B3 domain-containing protein IDEF1 (IDEF1), Recombinant Protein

Cat RP12682

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)/ 1 mg (Yeast)/ 0.1 mg  
(Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-  
Oryza sativa subsp. japonica (Rice  
Cell))

## Full Product Name

Recombinant Oryza sativa subsp. japonica B3 domain-containing protein IDEF1 (IDEF1)

## Product Gene Name

IDEF1 recombinant protein

## Product Synonym Gene Name

IDEF1

## Purity

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

## Sequence

MGQMDGGDGG GGGHPYHYQA LLAAVHQQT V PFPNPF PAPS SGAEPHPHN HNHNNHNNHN  
IHNSHNHNNH HNAAPHPCHT PTPPTPRGF ADWSASTSAF TSLAAHSSTA PSNAVHYSFS PCYAFWTHYM  
LNKNAYPTSF PAPHDDHLRL ANNNHPRDAP GPASSYGVES FTSPSMAPNI CTHMPPIEGP ISAKEDKKPE  
ILPRVVKSSD ELETRNSNVE FHSETVGTLP ESKQGHDSRA TKLLNSGEYQ VILRKELTKS DVGNVGRIVL  
PKKDAEASLP PLLQRDPLIL HMDDMVL PVT WKFKYRYWPN NKS RMYILDS AGEFLKTHGL QAGDVIIIYK  
NLAPGKFIIR GEKAIHQQT NP

## Sequence Positions

1-362, 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

39,942 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

B3 domain-containing protein

## NCBI Accession #

XP\_015648159.1

## NCBI GI #

1002287702

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

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(Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg  
(Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-  
Cell)

## NCBI GenBank Nucleotide #

XM\_015792673.1

## NCBI GeneID

4344415

## NCBI Official Full Name

B3 domain-containing protein IDEF1 isoform X1

## NCBI Official Symbol

LOC4344415

## NCBI Official Synonym Symbols

IDEF1; OsJ\_25718

## NCBI Protein Information

B3 domain-containing protein IDEF1

## UniProt Gene Name

IDEF1

## UniProt Protein Name

B3 domain-containing protein IDEF1

## UniProt Synonym Protein Names

Protein IRON DEFICIENCY-RESPONSIVE ELEMENT FACTOR 1

## UniProt Primary Accession #

Q6Z1Z3

## UniProt Secondary Accession #

A0A0P0XAM4; A9JTY5

## UniProt Related Accession #

Q6Z1Z3

## UniProt Comments

Transcription regulator involved in iron deficiency response and tolerance. May regulate directly iron transporters or other transcription factors involved in iron-deficiency response. Binds specifically to the DNA sequence 5'-CATGC-3' of the IDE1 element found in the promoter of the barley iron deficiency-inducible gene IDS2.

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