

## Tomato Sl\_eIF4E2 Recombinant Protein

PX-P1151-10

### DESCRIPTION

Belongs to a small multigenic family and three genes, eIF4E1, eIF4E2 and eIF(iso)4E, have been identified in tomato. It has been demonstrated that eIF4E-mediated natural recessive resistances against potyviruses result from non-synonymous mutations in an eIF4E protein, which impair its direct interaction with the potyviral protein VPg. In tomato, the role of eIF4E proteins in potyvirus resistance is still unclear because natural or induced mutations in eIF4E1 confer only a narrow resistance spectrum against potyviruses. This contrasts with the broad spectrum resistance identified in the natural diversity of tomato.

### OVERVIEW

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<b>SIZE</b>	10 ug
<b>ORIGIN SPECIES</b>	Tomato
<b>FRAGMENT</b>	Partial*
<b>PROTEIN DELIVERED WITH TAG</b>	Yes
<b>MOLECULAR WEIGHT WITH TAG IF ANY</b>	23,10 kDa
<b>DELIVERY CONDITION</b>	Dry Ice

### PRODUCT INFORMATION

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<b>EXPRESSION SYSTEM</b>	Prokaryotic expression
<b>HOST</b>	E.coli
<b>PURITY</b>	≥50%
<b>PROTEIN ACCESSION</b>	XP_004231545.1
<b>FORM</b>	liquid
<b>BUFFER</b>	PBS1, Urea 8M
<b>STABILITY &amp; STORAGE</b>	4°C for short term (1 week), -20°C or -80°C for long term (avoid freezing/thawing cycles; addition of 20-40% glycerol improves cryoprotection)

## MORE INFO

**GENE ID**

**SWISSPROTID**

**UNIPROT ID**

**UNIPROT LINK**

**NCBI GENE ALIASES**

**SYNONYMS** SI\_eIF4E2, eukaryotic translation initiation factor 4E-1-like

## PROTEIN SEQUENCE

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MGSSHHHHHSSGLVPRGSHMMADELNKAALEEYKSSSVEDRGEEGEIVGESDDTASSLGKQITMKHPLEHSWTFWFDNP  
SGKSKQAAWGSIRPIYTFSTAEDFWSVYNNIHHPSKLAVGADFHCFKNKIEPKWEDPVCANGGKWTMNFSGKSDTCWL  
YLLALIGEQFDYGDEICGAVINVRVRQEKIALWTRNAANETAQDV

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