

Product datasheet for SC317326

GRPEL2 (NM_152407) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRPEL2 (NM_152407) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRPEL2
Synonyms:	Mt-GrpE#2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317326 representing NM_152407. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGGATCGCC
ATGGCCGTACGGTCGCTGTGGGCGGGCCGGCTGCGGGTGCCAGCGCCTACTGGCCTGGAGTGCCCGCTGG
GAGAGCAAGGGATGGCCGCTTCCATT CAGCACTGCCACCCAGAGA AACTGCTGGTGAGGACTGCCGTTCT
GAGGACCCTCCTGATGAGCTTGGGCCCCCTCTTGCTGAACGAGCCTTAAGGGTAAAAGCTGTAAACTG
GAGAAAGAAGTCCAAGATTTAACAGTGAGATACCAGAGAGCTATAGCTGATTGTGAAAACATAAGGAGG
CGAACCCAGAGATGTGTGAAGACGCCAAGATATTTGGAATCCAGAGTTTCTGTAAGGACTTGGTGGAG
GTGGCTGACATTTGGAGAAGACTACAGAGTGCATTTCTGAAGAATCGGAGCCTGAGGACCAAAAGCTC
ACTCTGGAGAAGGTCTTCGAGGGTTGTTGCTTTTGAAGCAAAGCTGAAAAGTGTGTTTGCCAAGCAT
GGCCTGGAGAACTGACACCCATTGGTGACAAATATGACCCCCATGAGCATGAACTCATCTGTCATGTG
CCAGCTGGTGTGGGGTGCAGCCTGGCACCCTGGCATTAGTAAGACAAGATGGCTACAAACTTCATGGC
CGCACCATTAGGCTTGCCCGAGTGGAAAGTGGCAGTGGAGTCTCAGAGAAGACTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites:	Sgfl-MluI
Plasmid Map:	<input type="checkbox"/>
ACCN:	NM_152407
Insert Size:	678 bp



[View online »](#)

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_152407.3
RefSeq Size:	4105 bp
RefSeq ORF:	678 bp
Locus ID:	134266
UniProt ID:	Q8TAA5
Cytogenetics:	5q32
MW:	25.4 kDa
Gene Summary:	Essential component of the PAM complex, a complex required for the translocation of transit peptide-containing proteins from the inner membrane into the mitochondrial matrix in an ATP-dependent manner. Seems to control the nucleotide-dependent binding of mitochondrial HSP70 to substrate proteins. Stimulates ATPase activity of mt-HSP70. May also serve to modulate the interconversion of oligomeric (inactive) and monomeric (active) forms of mt-HSP70 (By similarity).[UniProtKB/Swiss-Prot Function]