

Product datasheet for **SC100479**

GRPEL1 (NM_025196) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRPEL1 (NM_025196) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRPEL1
Synonyms:	GrpE; HMGE; mt-GrpE#1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_025196, the custom clone sequence may differ by one or more nucleotides

```
ATGGCGGCTCAGTGCGTGAGGTTGGCGGGCGCAGTCTTCTGCTTTGGCGTTGTCTCTCAGGCCATCTC  
CCCGGTTGTTGTGCACAGCCACGAAACAAAAGAACAGTGGCCAGAACCTGGAAGAGGACATGGGTCAGAG  
TGAACAGAAGGCAGATCCTCCTGCTACAGAGAAGACCCTCCTGGAAGAGAAGGTCAAGTTGGAGGAACAG  
CTGAAGGAGACTGTGGAAAAATATAAACGAGCTTTGGCAGACACTGAGAACTTACGGCAGAGGAGCCAGA  
AATTGGTGGAGGAGGCAAAATTATACGGCATTCAAGCCTTCTGCAAGGACTTGTTGGAGGTGCCAGACGT  
TCTGGAGAAGGCAACACAGTGTGTTCCAAAAGAAGAAATTAAGACGATAACCCTCACCTGAAGAACCCT  
TATGAGGGGCTGGTCATGACTGAAGTCCAGATCCAGAAGGTGTTCAAAAGCATGGCTTGCTCAAGTTGA  
ACCCTGTCGGAGCCAAGTTCGACCCTTATGAACATGAGGCCTTGTCCACACACCGGTTGAGGGGAAGGA  
GCCAGGCACAGTGGCCCTAGTTAGCAAAGTGGGGTACAAGCTGCATGGGGCGCACTCTGAGACCCGCCCTG  
GTGGGGTGGTGAAGGAAGCTTAG
```



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_025196 unedited TTCAAATTTTGTAAACGACTCACTATAGGGCGGCCGCGAAATTCGCACGAGGCGACTGC GACGGGCAGTGGCAGTCAATGGCGGCTCAGTGCCTGAGGTTGGCGCGGCCAGTCTTCCTG CTTTGGCGTTGTCTCTCAGGCCATCTCCCGGTTGTTGTGCACAGCCACGAAACAAAAGA ACAGTGGCCAGAACCTGGAAGAGGACATGGGTGAGAGTGAACAGAAGGCAGATCCTCCTG CTACAGAGAAGACCCTCCTGGAAGAGAAGGTCAAGTTGGAGGAACAGCTGAAGGAGACTG TGGAAAAATATAACGAGCTTTGGCAGACACTGAGAACTTACGGCAGAGGAGCCAGAAAT TGGTGGAGGAGGCAAAATTATACGGCATTCAAGCCTTCTGCAAGGACTTGTGGAGGTGG CAGACGTTCTGGAGAAGCAACACAGTGTGTTCCAAAAGAAGAAATTAAGACGATAACC CTCACCTGAAGAACCTCTATGAGGGGCTGGTCATGACTGAAGTCCAGATCCAGAAGGTGT TCACAAAGCATGGCTTGCTCAAGTTGAACCCTGTCGGAGCCAAGTTCGACCCTTATGAAC ATGAGGCCTTGTCCACACACCGGTTGAGGGGAAGGAGCCAGGCACAGTGGCCCTAGTTA GCAAAGTGGGGTACAAGCTGCATGGGCGCACTCTGAGACCCGCCCTGGTGGGGTGGGTG AANGAAGCTTANCTGCTTGTGATGGGGNTGGTGGGTTTTAAACTCACTTGATGTAACTC TCAANAAAAAAAAAAAAAAGCTCGACTCTAGATTGCGGCCGCGGTATAGCTGTTTCCTGA ACAGATCCNNGGTGGCATNCCTGTGACCCTNCCCATGCCTCTTCTGGCCCTGGAGTTG CACTNCAGTGCCNACAGNNCTGTCTAATAAAATAAGTGCATCATTTGCTGACTAGTGTCT TCATAATATGTGGGGGGGGGG
Restriction Sites:	NotI-NotI
ACCN:	NM_025196
Insert Size:	800 bp
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).
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_025196.2 , NP_079472.1
RefSeq Size:	1519 bp
RefSeq ORF:	654 bp
Locus ID:	80273
UniProt ID:	Q9HAV7
Cytogenetics:	4p16.1
Domains:	GrpE

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 (By similarity). Seems to control the nucleotide-dependent binding of mitochondrial HSP70 to substrate proteins (PubMed:11311562).[UniProtKB/Swiss-Prot Function]