

Product datasheet for **MC200232**

Grpel1 (NM_024478) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Grpel1 (NM_024478) Mouse Untagged Clone
Tag: Tag Free
Symbol: Grpel1
Synonyms: AA408748; mt-GrpE#1; mt-Grpel1
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC002284 sequence for NM_024478
 CGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGGGGCAGTCATGGCGGCTCG
 GTGTGTGAGGCTGGCGCGTCGCAGCCTCCCGCTTTGGCACTGTGTTTCAGGCCTTCTCCTCGCTTGTG
 TGCACAGCTACGAAACAGAAGAACAATGGCCAGAACCTGGACGAGGACTTGGGTCAATTGTGAGCCAAAGA
 CAGATCCACCCTCTGCAGACAAGACCCTCTGGAAGAGAAGGCAAAGCTGGAAGAGCAGCTGAGGGAGAC
 CATGGAAAAATACAAACGTGCTTTGGCAGATACTGAGAATCTACGGCAGAGAAGCCAGAAGCTGGTAGAG
 GAGGCCAAGTTATATGGCATCCAGGTTTCTGCAAGGACTTGCTGGAGGTTGCAGACATCCTGGAGAAGG
 CAACCCAGAGTGTCCAAAGGAGGAGATCAGCAACAACAACCTCACCTGAAGAGTCTTTATGAAGGGCT
 CGTGATGACTGAAGTCCAGATTCAGAAGGTGTTCAAAAAACGGCTTGCTCAGGCTTGACCCAATTGGG
 GCCAAGTTCGACCCTTACGAACATGAGGCCTTGTCCACACCCCTGTGGAGGGGAAAGAACCAGGCACTG
 TGGCACTAGTTAGTAAGGTGGGCTACAAGCTGCACGGACGCACCCTGAGGCCAGCTTTGGTGGGGTGGT
 GAAGGACGCTTAGCTCCCTCCCTCAGGCTCTGGACTTTGTAGGCTACTTGTAGAACTCGAAGGGCGGGC
 TTGTAATTTCTCATCTGTGAATTCATCTGACCCTTGCCAGCCTTGTGGAAATCTTAAGTAAGCTAAGC
 AGAACATGAAGCTGCTTGACAGTCAGGGACTCTGGGAGTCTGGTCACTGAATTTAGCATTACCTACTTC
 AGAAGAGGGCCAGCAGGACCTCGGGAGTAGTATGCTAACATTGTATCTGTTCCACCTGGTGATTAGTACT
 TTACACAAATAAAAGGTCTTTGGCTATAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_024478

Insert Size: 654 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).



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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:	<u>BC002284</u> , <u>AAH02284</u>
RefSeq Size:	1022 bp
RefSeq ORF:	654 bp
Locus ID:	17713
UniProt ID:	<u>Q99LP6</u>
Cytogenetics:	5 B3
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 (By similarity).[UniProtKB/Swiss-Prot Function]