

Product datasheet for **MR207123**

Gorasp1 (NM_028976) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gorasp1 (NM_028976) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gorasp1
Synonyms:	5430411C10Rik; GOLPH5; GRASP65; P65
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207123 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGCTAGGGCAAGCAGCAGCAGCCGGCGGGCGGAGGGCTTCCATCTGCACGGGTACAAGAGA
 ACTCGCCGGCCAGCAGGCAGGCCTGGAGCCCTACTTCGACTTCATCATCACCATCGGGCACTCGAGGCT
 GAACAAGGAGAACGACACGCTGAAGGCATTGCTGAAGGCCAATGTGGAGAAGCCGGTGAAGCTGGAGGTA
 TTCAACATGAAGACCATGAAGGTGCGCAGGTAGAGGTGGTGCCAGCAACATGTGGGGCGCCAGGGCC
 TCCTGGGAGCCAGCGTGCCTTCTGTAGCTTCCGACGGGCCAGCGAACACGTGTGGCATGTGCTGGATGT
 GGAGCCCTCTTACCTGCTGCCTTGCCCGGCTGTGCCCTTACACAGACTACATAGTTGGCTCTGACCAG
 ATTCTCCAGGAGTCAGAAGACTTCTTTACTCTCATTGAGTCCCATGAGGGGAAGCCTCTGAAGCTGATGG
 TGTATAACTCGGAGTCCGACTCCTGCCGGGAGGTGACTGTGACTCCCAATGCAGCCTGGGTGGAGAGGG
 CAGTCTGGGGTGTGGTATTGGTTATGGGTACCTGCATCGGATCCCAACGCAACCCCTCCAGCCAGCACAAG
 AAGCCACCCGGTGCCACACCACCTGGCACTCCAGCTACGACCTCACAACTTACTGCCTTTCTCTTGGTG
 CCCCACCACCTTGGCCTATCCCTCAGGACTCTTCTGGCCAGAGTTGGGTCCAGGCAGAGTGACTTCAT
 GGAGGCCCTACCAAGTCCCTGGTAGCTTTATGGAGGGACAGCTCCTTGGGCTGGGAGTCCCAGCCAT
 GGCGTGTGACTGTGGGGGATGCCTGCGTGCTATGGAGATCCCGCTTACGCTCCACCTCCAGTGCAGC
 GGGTATGGACCCAGGCTTCTGGATGTATCAGGCATGTCCCTCTGGACAGCAGCAACATAAGCGTGTG
 CCCCAGCTGTATCTTCCACAGTGTGACCTCCACAGCTGTTTTCAGTCTCAGGACCAGAGGACATTGGT
 TCTAGCAGCAGTTCTCACGAGCGGGTGGTGAAGCCACGTGGTCAGGGTCAGAGTTTGGATCTCCTTCC
 CAGACATCCAGGTGCCAGGCCAGGCCACCTGCCCGGCTGACTCTCCCGATGGCCTCACATC
 TCGCGCCTCACCTGAAGAAGGGCTGTCTGCAGAGCTGCTGGAAGCACAGACTGAGGAGCCGGCAGACACA
 GCCAGCCTGGATTGCAGGCAGAGACTGAGGGGAGAGCCAGCCAAGCGCAGGCCACCCAGATCCAGAGC
 CTGGGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207123 protein sequence
 Red=Cloning site Green=Tags(s)

MGLGASSEQPAGGEGFHLHGVQENSPAQQAGLEPYFDFIITIGHSRLNKENDTLKALLKANVEKPKVLEV
 FNMKTMKVREVEVVPNSMWGGQGLLGASVRFCSFRRASEHVWHVLDVEPSSPAALAGLCPYTDYIVGSDQ
 ILQESEDFFTLIESHEGKPLKLMVYNSESDSCREVTVTPNAAWGGEGSLGCGIGYGLHRIPTQPSSQHK
 KPPGATPPGTPATTSQLTAFPLGAPPWPVQDSSGPELGSRQSDFMALPQVPGSFMEGQLLGGSPSH
 GAADCGGLRAMEIPLQPPPPVQRMVDPGFLDVSGMSLLDSSNISVCPSSLSSSTVLTSTAVSVSGPEDIG
 SSSSSHERGGEATWSGSEFEISFPDSPAQAQADHLPRLLTPDGLTSAASPEEGLSAELLEAQTEEPADT
 ASLDCRAETEGRASQAQATPDPEPGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_028976

ORF Size: 1341 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_028976.2](#), [NP_083252.1](#)

RefSeq Size: 3483 bp

RefSeq ORF: 1341 bp

Locus ID: 74498

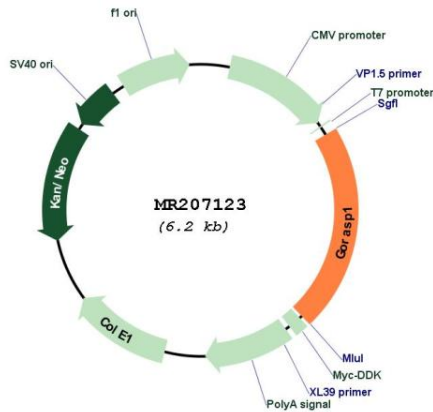
UniProt ID: [Q91X51](#)

Cytogenetics: 9 F4

MW: 46.9 kDa

Gene Summary: Plays an important role in assembly and membrane stacking of the Golgi cisternae, and in the reassembly of Golgi stacks after breakdown during mitosis. Key structural protein required for the maintenance of the Golgi apparatus integrity: its caspase-mediated cleavage is required for fragmentation of the Golgi during apoptosis (By similarity). Also mediates, via its interaction with GOLGA2/GM130, the docking of transport vesicles with the Golgi membranes (By similarity). Mediates ER stress-induced unconventional (ER/Golgi-independent) trafficking of core-glycosylated CFTR to cell membrane (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207123