

Product datasheet for **RG210076**

GRASP65 (GORASP1) (NM_031899) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRASP65 (GORASP1) (NM_031899) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GRASP65
Synonyms:	GOLPH5; GRASP65; P65
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210076 representing NM_031899 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCCTGGGCGTCAGCGCTGAGCAGCCCGCAGGCGGCCGAGGGCTTCCACCTCCACGGGGTGCAGG
AGAAGTCCCAGCCAGCAGGCGGGCTGGAGCCCTACTTTGACTTCATCATCACCATTGGGCACTCGAG
GCTGAACAAGGAGAATGACACCCTGAAGGCACTACTGAAAGCCAATGTGGAGAAGCCCGTGAAGCTGGAG
GTGTTCAATATGAAGACCATGAGGGTGCAGGAGTGGAGTGGTCCAGCAACATGTGGGCGGCCAGG
GCCTACTGGGTGCCAGTGTGCGCTTCTGCAGCTTCCGACAGGCCAGTGGCAGGTGTGGCATGTGCTGGA
TGTGGAACCATCTTACCTGCTGCCCTTCCCGCCCTGCGCCCTACACAGACTATGTGGTTGGTTCGGAC
CAGATTCTCCAGGAGTCCGAGGACTTCTTTACGCTCATCGAGTCTCATGAGGGGAAGCCCTTGAAGCTGA
TGGTGTATAACTCCAAGTCAGACTCCTGCCGGGAGGTGACTGTAACCTCCAACGCAGCCTGGGGTGGAGA
GGGCAGTCTGGGATGTGGCATTGGCTATGGGTATCTACACCGGATCCCAACTCAGCCCCAGCTACCAC
AAGAAGCCACCTGGCACCACACCTTCTGCTTACCCTTGGTGGCCACACCTGATGCTTACCAC
CTGGACCCACCCCGAGGACTCTCCTCCCTGGAGACAGGTTCCAGGCAGAGTACTACATGGAGGCCCT
GCTGCAGGCACCTGGCTCCTCCATGGAGGATCCCTTCCCTGGGCTGGGAGTCCCAGCCACAGTGTCCA
GACCTGATGGACTTCCCATTTCATGGAGACTCCTTTCAGCCCCACCTCCAGTGCAGCGAGTTATGG
ACCCAGGCTTCCCTGGACGTGTGGGAATTTCTCTTGGACAACAGCAATGCCAGTGTGTGGCCAGCCT
GCCCTTCTCCACAGAAGTACCACACAGCTGTCTCAACCTCAGGGCCAGAGGACATCTGCTCCAGCAGC
AGTTCTCATGAGCGGGTGGTGGGCTACATGGTCTGGGTGAGAGTTTGGAGTCTCCTTCTGGACAGCC
CAGGTGCCAAGCCAGGCGGACCACCTGCCTCAGCTGACTTCTCCTGACAGTCTCACCTCTGCAGCCTC
ACCAGAAGATGGGCTGTCCGCCGAGCTGCTTGAAGCTCAGGCTGAGGAGGAACCAGCAAGCACAGAGGGC
CTAGATACTGGGACGGAGGCTGAGGGGCTGGACAGCCAGGCCAGATCTTACCACAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210076 representing NM_031899
 Red=Cloning site Green=Tags(s)

MGLGVSAEQPAGGAEGFHLHGVQENSPAQQAGLEPYFDFIITIGH SRLNKENDTLKALLKANVEKPVKLE
 VFNMKTMRVREVEVVP SNMWGGQGLLGASVRFCSFRRASEQVWHVLDVEPSSPAALAGLRPYTDYVVGSD
 QILQESEDFFTLIESHEGKPLKLMVYNSKSDSCREVTVPNAAWGGEGSLGCGIGYGLHRIPTQPPSYH
 KKPPGTPPPSALPLGAPPPDALPPGTPEDSPSLETGSRQSDYMEALLQAPGSSMEDPLPGPGSPHSAP
 DPDGLPHFMETPLQPPPPVQRVMDPGFLDVSGISLLDNSNASVWPSLPSSTELTTTAVSTSGPEDICSSS
 SSHERGGEATWSGSEFEVSVFLDSPGAQAQADHLPQLTLPDSL TSAASPEDGLS AELLEAQEEEPASTEG
 LDTGTEAEGLDSQAQISTTE

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031899

ORF Size: 1320 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_031899.3](#)

RefSeq Size: 3057 bp

RefSeq ORF: 1323 bp

Locus ID: 64689

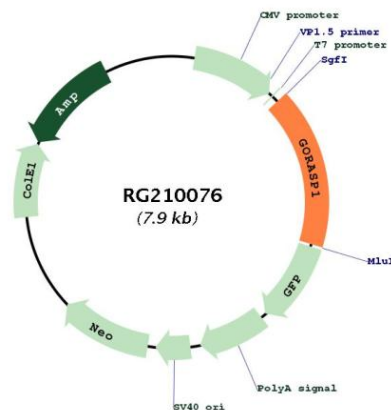
UniProt ID: [Q9BQQ3](#)

Cytogenetics: 3p22.2

Domains: GRASP55_65

Gene Summary: The Golgi complex plays a key role in the sorting and modification of proteins exported from the endoplasmic reticulum. The protein encoded by this gene is a membrane protein involved in establishing the stacked structure of the Golgi apparatus. It is a caspase-3 substrate, and cleavage of this encoded protein contributes to Golgi fragmentation in apoptosis. This encoded protein can form a complex with the Golgi matrix protein GOLGA2, and this complex binds to the vesicle docking protein p115. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RG210076