

Product datasheet for **RG207512**

Glycoprotein 2 (GP2) (NM_001007242) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glycoprotein 2 (GP2) (NM_001007242) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glycoprotein 2
Synonyms:	ZAP75
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207512 representing NM_001007242 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGGATGGTGGGCTCTGGCCTCTGTGGCTGGCCTTGGTCTCCTGCATTCTGACCCAGGCATCTG
CAGTGCAGCGAGACCCATCCACTGTGGAGGACAAGTGTGAGAAGGCCTGCCGCCCGAGGAGAGTGCC
TGCCCTCAACAGCACCTGGGGCTGTTTCTGCAGACAGGACCTCAATAGTTCTGATGTCCACAGTTTGCAG
CCTCAGCTAGACTGTGGGCCAGGGAGATCAAGGTGAAGGTGGACAAATGTTTCTGGGAGGCTGGTT
TGGGGGAGGAGGTCATTGCCTACCTGCGAGACCCAACTGCAGCAGCATCTTGCAGACAGAGGAGAGGAA
CTGGGTATCTGTGACCAGCCCGTCCAGGCTAGTGCCTGCAGGAACATTCTGGAGAGAAATCAAACCCAT
GCCATCTACAAAAACACCTCTCCTTGGTCAATGATTTTCATCATCAGAGACACCATCCTCAACATCAACT
TCCAATGTGCCTACCCACTGGACATGAAAGTCAGCCTCCAAGCTGCCTTGCAGCCCATTTGAAGTTCCCT
GAACGTCAAGTGTGGACGGGAATGGAGAGTTCAATTGTCAGGATGGCCCTTCCAAGACCAGAACTACACG
AATCCTTACCAAGGGGATGCAGTTGAACTGTCTGTTGAGTCCGTGCTGTATGTGGGTGCCATCTTGAAC
AAGGGGACACCTCCCGGTTTAACTGGTGTGAGGAAGTCTATGCCACCCCACTGAAGACAAGGCTGA
CCTTGTGAAGTATTTTCATCATCAGAAACAGCTGCTCAAATCAACGTGATCCACCATCCAGTGGAGGAG
AATGGGCAGTCCCTCGAAAGCCGGTTCTCAGTTCAGATGTTTCATGTTTGGCTGGACATTATGACCTAGTTT
TCCTGCATTGTGAGATTCATCTCTGTGATTCTCTTAATGAACAGTGCCAGCCTTCTTGTCAAGAAGTCA
AGTCCGCAGTGAAGTACCGGCCATCGACCTAGCCCGGTTCTAGATTTGGGGCCCATCACTCGGAGAGGT
GCACAGTCTCCCGGTGCATGAATGGAACCCCTAGCACTGCAGGGTTCCTGGTGGCCTGGCCTATGGTCC
TCCTGACTGTCCTCTGGCTTGGCTGTTT

ACGGTACGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207512 representing NM_001007242
Red=Cloning site Green=Tags(s)

MERMVGSGLLWLALVSCILTQASAVQDRPSTVEDKCEKACRPEEECLALNSTWGCFCRQDLNSSDVHSLQ
 PQLDCGPREIKVKVDKCLLGLGLGEEVIAYLRDPNCCSSILQTEERNWVSVTSPVQASACRNILERNQTH
 AIYKNTLSLVNDFIIRDITLNFQCAAYPLDMKVSLQAALQPIVSSLNVSVDGNGEFIVRMALFQDQNYT
 NPYQGDVELSVESVLYVGAILEQGDTSRFNLVLRNCYATPTEDKADLVKYFIIIRNSCSNQRDSTIHVEE
 NGQSSSRFSVQMFAGHYDLVFLHCEIHLCDLSLNEQCQPCSRSQVRSEVPAIDLARVLDLGPITRRG
 AQSPGVMNGTPSTAGFLVAWPMVLLTVLLAWLF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001007242

ORF Size: 1149 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_001007242.1](#), [NP_001007243.2](#)

RefSeq Size: 1998 bp

RefSeq ORF: 1164 bp

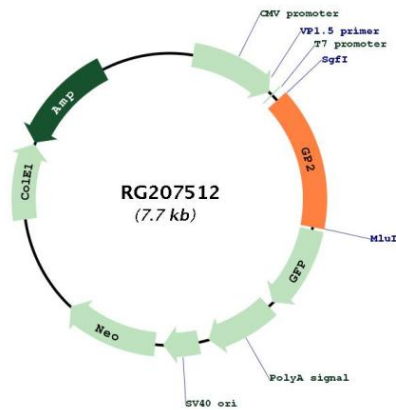
Locus ID: 2813

Cytogenetics: 16p12.3

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Gene Summary: This gene encodes an integral membrane protein that is secreted from intracellular zymogen granules and associates with the plasma membrane via glycosylphosphatidylinositol (GPI) linkage. The encoded protein binds pathogens such as enterobacteria, thereby playing an important role in the innate immune response. The C-terminus of this protein is related to the C-terminus of the protein encoded by the neighboring gene, uromodulin (UMOD). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]

Product images:



Circular map for RG207512