

Product datasheet for **RG216763**

Glycoprotein 2 (GP2) (NM_001502) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glycoprotein 2 (GP2) (NM_001502) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GP2
Synonyms:	ZAP75
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG216763 representing NM_001502
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTCACCTTATGAAAGGATGGTGGCTCTGGCTCCTGTGGCTGGCCTTGGTCTCCTGCATTCTGA
 CCCAGGCATCTGCAGTGCAGCGAGGTTATGAAAACCCATTGAAGCCAGTTCGTATGGGCTGGACCTGGA
 CTGCGGAGCTCCTGGCACCCAGAGGCTCATGTCTGTTTTGACCCTGTGAGAATTACACCCCTCGGAT
 GAACCTTCCGAAGCACAGAACTCAGCAGGGTCCCAGGGTGCATAAAAACATGAGCGGCTGGTACC
 GCTTTGTAGGGGAAGGAGGAGTAAGGATGTCGGAGACCTGTGTCAGGTGCACCGATGCCAGACAGACGC
 TCCCATGTGGCTGAATGGGACCCACCCTGCCCTGGGGATGGCATACCAACCACACTGCCTGTGCCAT
 TGGAGTGGCAACTGCTGTTCTGAAAACAGAGGTGCTGGTGAAGGCTGCCAGCGGGTACCATGTGT
 ACCGGTTGGAAGGCACTCCCTGGTGAATCTGAGATACTGCACAGACCCATCCACTGTGGAGGACAAGT
 TGAGAAGGCTGCCGCCCGAGGAGGAGTGCCTTGCCTCAACAGCACCTGGGGTGTCTTCTGCAGACAG
 GACCTCAATAGTTCTGATGTCCACAGTTTCGAGCCTCAGCTAGACTGTGGGCCAGGAGATCAAGGTGA
 AGGTGGACAAATGTTGCTGGGAGGCTGGGTTGGGGGAGGAGGTCATTGCCTACCTGCCAGACCCAAA
 CTGCAGCAGCATCTGCAGACAGAGGAGGAACTGGGTATCTGTGACCAGCCCCGTCCAGGCTAGTGCC
 TGCAGGAACATCTGGAGAGAAAACAAACCCATGCCATCTACAAAAACACCCTCTCCTGGTCAATGATT
 TCATCATCAGAGACACCATCCTCAACATCAACTCCAATGTGCCTACCCACTGGACATGAAAGTCAGCCT
 CCAAGCTGCCTTGACGCCATTGTAAGTCCCTGAACGTGAGTGGACGGGAATGGAGAGTTTATTGTC
 AGGATGGCCCTCTTCAAGACCAGAACTACACGAATCCTACGAAGGGGATGCAGTTGAAGTGTCTGTTG
 AGTCCGTGCTGTATGTGGGTGCCATCTTGGAAACAAGGGGACACCTCCCGGTTTAACTGGTGTGAGGAA
 CTGCTATGCCACCCCACTGAAGACAAGGCTGACCTTGTGAAGTATTTTCATCATCAGAAACAGTCTCA
 AATCAACGTGATTCCACCATCCACGTGGAGGAGAAATGGGACGTCCTCGGAAAGCCGGTCTCAGTTCAGA
 GTTTCATGTTTGTGGACATTATGACCTAGTTTTCTGCATTGTGAGATTCATCTCTGTGATTCTCTTAA
 TGAACAGTCCAGCCTTCTTGTCAAGAAGTCAAGTCCGAGTGAAGTACCGGCCATCGACCTAGCCCGG
 GTTCTAGATTTGGGGCCATCACTCGGAGAGGTGCACAGTCTCCCGGTGCATGAATGGAACCCCTAGCA
 CTGCAGGGTCTGGTGGCTGGCTATGGTCTCCTGACTGTCTCCTGGCTGGCTGTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG216763 representing NM_001502
 Red=Cloning site Green=Tags(s)

MPHLMERMVGSGLLWLVSCILTQASAVQRGYGNPIEASSYGLDLDCGAPGTPEAHVCFDPCQNYTLDD
 EPFRSTENSAGSQGCDKNMSGWYRFVGEVGRMSETCVQVHRCQTDAPMWLNGTHPALGDGINTHTACAH
 WSGNCCFWKTEVLVKACPGGYHYVRLGTPWCNLRVCTDPSTVEDKCEKACRPEEECLALNSTWGCFCRQ
 DLNSSDVHSLQPQLDCGPREIKVKVDKLLGGLGLGEEVIAYL RDPNCSSILQTEERNWVSVTSPVQASA
 CRNILERNQTHAIYKNTLSLVNDFIIRDITLINFQCAVPLDMKVSLQAALQPIVSSLNVSVDGNGEFIV
 RMALFQDQNYTNPYEGDAVELSVESVLVYGAILEQGDTSRNLVLRNCYATPTEDKADLVKYFIIIRNSCS
 NQRDSTIHVEENGQSSESRFSVQMFAGHYDLVFLHCEIHLCDLNEQCQPSCSRSRQVRSEVPAIDLAR
 VLDLGPITRRGAQSPGVMNGTPTAGFLVAWPMVLLTVLLAWLF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001502
ORF Size:	1602 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:	<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_001502.4
RefSeq Size:	2439 bp
RefSeq ORF:	1605 bp
Locus ID:	2813
UniProt ID:	P55259
Cytogenetics:	16p12.3
Domains:	zona_pellucida
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]