

Product datasheet for **RG224576**

Glycoprotein 2 (GP2) (NM_001007240) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glycoprotein 2 (GP2) (NM_001007240) 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:

>RG224576 representing NM_001007240
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTCACCTTATGAAAGGATGGTGGCTCTGGCTCTCTGTGGCTGGCCTTGGTCTCCTGCATTCTGA
 CCCAGGCATCTGCAGTGCAGCGAGGTTATGGAAACCCATTGAAGCCAGTTCGTATGGGCTGGACCTGGA
 CTGCGGAGCTCCTGGCACCCAGAGGCTCATGTCTGTTTTGACCCTGTGAGAATTACACCTCCTGGAT
 GAACCTTCCGAAGCACAGAACTCAGCAGGGTCCCAGGGTGCATAAAAACATGAGCGGCTGGTACC
 GCTTTGTAGGGGAAGGAGGAGTAAGGATGTCGGAGACCTGTGTCCAGGTGCACCGATGCCAGACAGACGC
 TCCCATGTGGCTGAATGGGACCCACCCTGCCCTTGGGGATGGCATACCAACCACACTGCCTGTGCCAT
 TGGAGTGGCAACTGCTGTTCTGAAAACAGAGGTGCTGGTGAAGGCCTGCCAGCGGGTACCATGTGT
 ACCGGTTGGAAGGCACTCCCTGGTGAATCTGAGATACTGCACAGTTCACGAGACCCATCCACTGTGGA
 GGACAAGTGTGAGAAGGCTGCCGCCCGAGGAGGAGTGCCTTGCCTCAACAGCACCTGGGCTGTTTC
 TGCAGACAGGACCTCAATAGTTCGATGTCCACAGTTTGCAGCCTCAGCTAGACTGTGGGCCAGGGAGA
 TCAAGGTGAAGGTGGACAAATGTTTGTGGGAGGCTGGGTTTGGGGGAGGAGGTATTGCCTACCTGCG
 AGACCCAAACTGCAGCAGCATCTTGAGACAGAGGAGAGGAACGGGTATCTGTGACCAGCCCCGTCCAG
 GCTAGTGCCTGCAGGAACATTCTGGAGAGAAATCAAACCCATGCCATCTACAAAAACACCCTCTCCTTGG
 TCAATGATTTTCATCATCAGAGACACCATCCTCAACATCAACTCCAATGTGCCTACCCACTGGACATGAA
 AGTCAGCCTCAAAGTGCCTTGCAGCCCATTGTAAGTTCCTGAACGTGAGTGTGGACGGGAATGGAGAG
 TTCATTGTGAGGATGGCCCTCTTCAAGACCAGAACTACACGAATCCTTACGAAGGGGATGCAAGTGAAC
 TGTCTGTTGAGTCCGTGCTGTATGTGGGTGCCATCTTGAACAAGGGGACACCTCCCGGTTAACCTGGT
 GTTGAGGAAGTGCATGCCACCCCACTGAAGACAAGGCTGACCTTGTGAAGTATTTTCATCATCAGAAAC
 AGCTGCTCAAATCAACGTGATTCACCATCCACGTGGAGGAGAATGGGCAGTCCCTCGAAAGCCGGTTCT
 CAGTTCAGATGTTTCATGTTTGTGGACATTATGACCTAGTTTTCTGCATTGTGAGATTCTCTGTGA
 TTCTCTTAATGAACAGTGCAGCCTTCTTGTCAAGAAGTCAAGTCCGAGTGAAGTACCGGCCATCGAC
 CTAGCCCGGTTCTAGATTTGGGCCCATCACTCGGAGAGGTGCACAGTCTCCCGGTGCATGAATGGAA
 CCCCTAGCACTGCAGGGTCTCTGGTGGCTGGCCTATGGTCTCCTGACTGTCCTCTGGCTTGGCTGTT
 C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224576 representing NM_001007240
 Red=Cloning site Green=Tags(s)

MPHLMERMVGSLLWLALVSCILTQASAVQRGYGNPIEASSYGLDLDCGAPGTPPEAHVCFDPCQNYTLDD
 EPFRSTENSAGSQCDKNMSGWYRFVGEVGRMSETCVQVHRCQTDAPMWLNTHPALGDGITHNTACAH
 WSGNCCFWKTEVLVKACPGGYHVYRLEGTWPCNLRVCTVPRDPSTVEDKCEKACRPEEECLALNSTWGC
 CRQDLNSSDVHSLQPQLDCGPREIKVKVDKLLGGLGLGEEVIAYL RDPNCSSILQTEERNWVSVTSPVQ
 ASACRNILERNQTHAIYKNTLSLVNDFIIRDTILNINFQAYPLDMKVSQAALQPIVSSLNVSDVNGNE
 FIVRMALFQDQNYTNPYEGDAVELSVESVLYVGAILEQGDTSRFLVLRNCYATPTEDKADLVKYFIIRN
 SCSNQRDSTIHEENGQSSESRFSVQMFAGHYDLVFLHCEIHLCDLNEQCQPSCSRSQVRSEVPAID
 LARVLDLGPITRRGAQSPGVMNGTPTAGFLVAWPMVLLTVLLAWLF

TRTRPLE - GFP Tag - V

Restriction Sites:

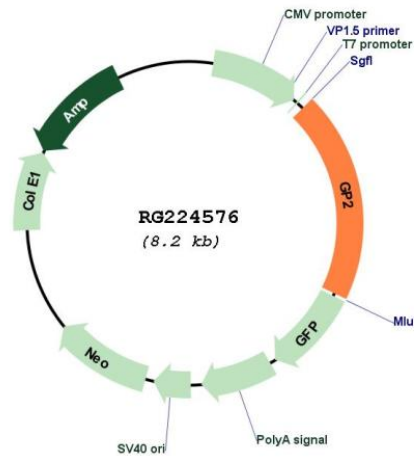
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_001007240
ORF Size:	1611 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_001007240.3
RefSeq Size:	2448 bp
RefSeq ORF:	1614 bp
Locus ID:	2813
UniProt ID:	P55259
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]