

## Product datasheet for **RC224576**

### 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:	Myc-DDK
Symbol:	Glycoprotein 2
Synonyms:	ZAP75
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC224576 representing NM\_001007240  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCTCACCTTATGAAAGGATGGTGGCTCTGGCTCCTGTGGCTGGCCTTGGTCTCCTGCATTCTGA  
 CCCAGGCATCTGCAGTGCAGCGAGGTTATGGAAACCCATTGAAGCCAGTTCGTATGGGCTGGACCTGGA  
 CTGCGGAGCTCCTGGCACCCAGAGGCTCATGTCTGTTTTGACCCTGTGAGAATTACACCTCCTGGAT  
 GAACCTTCCGAAGCACAGAACTCAGCAGGGTCCCAGGGTGCATAAAAACATGAGCGGCTGGTACC  
 GCTTTGTAGGGGAAGGAGGAGTAAGGATGTCGGAGACCTGTGTCAGGTGCACCGATGCCAGACAGACGC  
 TCCCATGTGGCTGAATGGGACCCACCCTGCCCTGGGGATGGCATACCAACCACACTGCCTGTGCCAT  
 TGGAGTGGCAACTGCTGTTCTGAAAACAGAGGTGCTGGTGAAGGCCTGCCAGCGGGTACCATGTGT  
 ACCGGTTGGAAGGCACTCCCTGGTGAATCTGAGATACTGCACAGTTCACGAGACCCATCCACTGTGGA  
 GGACAAGTGTGAGAAGGCTGCCGCCCGAGGAGGAGTGCCTTGCCTCAACAGCACCTGGGGCTGTTTC  
 TGACAGACAGGACCTCAATAGTTCGATGTCCACAGTTTGCAGCCTCAGCTAGACTGTGGGCCAGGGAGA  
 TCAAGGTGAAGGTGGACAAATGTTTGTGGGAGGCCTGGGTTGGGGGAGGAGGTATTGCCTACCTGCG  
 AGACCCAAACTGCAGCAGCATCTTGACAGACAGAGGAGGAACTGGGTATCTGTGACCAGCCCCGTCCAG  
 GCTAGTGCCTGCAGGAACATTCTGGAGAGAAATCAAACCCATGCCATCTACAAAAACACCCTCTCCTTGG  
 TCAATGATTTTCATCATCAGAGACACCATCCTCAACATCAACTCCAATGTGCCTACCCACTGGACATGAA  
 AGTCAGCCTCAAAGTGCCTTGCAGCCCATTGTAAGTTCCTGAACGTGAGTGTGGACGGGAATGGAGAG  
 TTCATTGTGAGGATGGCCCTCTTCAAGACCAGAACTACACGAATCCTTACGAAGGGGATGCAGTTGAAC  
 TGCTGTGTGAGTCCGTGCTGTATGTGGTGCATCTTGGAAACAAGGGGACACCTCCCGGTTAACCTGGT  
 GTTGAGGAAGTGCATGCCACCCCACTGAAGACAAGGCTGACCTTGTGAAGTATTTTCATCATCAGAAAC  
 AGCTGCTCAAATCAACGTGATTCCACCATCCACGTGGAGGAGAATGGGCAGTCCCTCGAAAGCCGGTCT  
 CAGTTCAGATGTTTCATGTTTGTGGACATTATGACCTAGTTTTCTGCATTGTGAGATTCTCTGTGA  
 TTCTCTTAATGAACAGTGCAGCCTTCTTGTCAAGAAGTCAAGTCCGAGTGAAGTACCGGCCATCGAC  
 CTAGCCCGGTTCTAGATTTGGGCCCATCACTCGGAGAGGTGCACAGTCTCCCGGTGCATGAATGGAA  
 CCCCTAGCACTGCAGGGTCTCTGGTGGCCTGGCCTATGGTCTCCTGACTGTCTCCTGGCTTGGCTGT  
 C

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC224576 representing NM\_001007240  
 Red=Cloning site Green=Tags(s)

MPHLMERMVGSGLLWLALVSCILTQASAVQRGYGNPIEASSYGLDLDCGAPGTPPEAHVCFDPCQNYTLDD  
 EPFRSTENSAGSQGCDKNMSGWYRFVGEVGRMSETCVQVHRCQTDAPMWLNGTHPALGDITNHTACAH  
 WSGNCCFWKTEVLVKACPGGYHVYRLEGTPWCNLRVYTPRDPSTVEDKCEKACRPEEECLALNSTWGC  
 CRQDLNSSDVHSLQPQLDCGPREIKVKVDKCLLGGGLGEEVIAYL RDPNCSSILQTEERNWVSVTPVQ  
 ASACRNILERNQTHAIYKNTLSL VDNDFIIRDTILNINFQAYPLDMKVS LQAALQPIVSSLNVSDVGN  
 GE FIVRMALFQDQNYTNPYEGDAVELSVESVLYVGAIL EQGDTSRFNLVLRNCYATPTEDKADLVKYFI  
 IRN SCSNQRDSTIHVEENGQSSSRFSVQMFAGHYDLVFLHCEIHLCDLNEQCQPSRSRQVSEVPAID  
 LARVLDLGPITRRGAQSPGVMNGTPSTAGFLVAWPMVLLTVLLAWLF

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8066\\_b03.zip](https://cdn.origene.com/chromatograms/mk8066_b03.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**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:**
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](#)

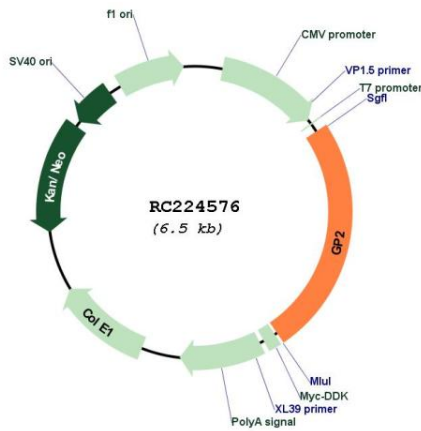
**Cytogenetics:** 16p12.3

**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

**MW:** 59.3 kDa

**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 RC224576