

Product datasheet for **RG221684**

OVGP1 (NM_002557) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OVGP1 (NM_002557) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OVGP1
Synonyms:	CHIT5; EGP; MUC9; OGP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG221684 representing NM_002557
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGAAGCTGTTGCTGTGGTGGGCTGGTTCTTGTGCTGAAACACCACGATGGTGTGCCATAAAC
TCGTGTGTTATTTACCAACTGGGCACACAGTCGGCCAGGCCCTGCCTCGATCTTGCCCATGACCTGGA
CCCTTTCTCTGCACCCACCTGATATTTGCCTTTGCCTCAATGAACAACAATCAGATTGTTGCTAAGGAT
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TGAAAAGTTTATTGCTTCAGTTATATCCCTTCTGAGGACACATGACTTTGATGGTCTTGACCTTTCTTC
TTATATCTGGACTAAGAGGCAGCCCCATGCATGACCGGTGGACTTTTCTTCTTAATTGAAGAGCTCC
TGTTTGCCTTCCGAAGGAGGCACTGCTCACCATGCGCCCGAGGCTGCTGCTGTCTGCTGTTTCTGG
GGTCCCACACATCGTCCAACATCCTATGATGTGCGCTTCTAGGAAGACTCCTGGATTTCAATCAATGTC
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TCAGTCTGTGAGCCCTGGAGAACGACTATGACCCCTGTCCATTTTCAGACTGAGACCCTTAGACAGAAT
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GGTAACTTGGTCTTCCAGATGGAAGCTGAAAACAGGATGATGCTGTCTCCAGCCCGTCATCCAGCTC
CCGAAACAACTCCTCTAGCTTTTGACAACCGCTTTGTTCCCATCTATGGAAACCATTCTCTGTCAACT
CAGTAACCCCTCAACAAGTCTCTTTCTAAAAAAGAAATCCAGAAAACCTGCTGTGGATGAAGA
AGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG221684 representing NM_002557
 Red=Cloning site Green=Tags(s)

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MWKLLLWVGLVLVLKHHDGAAHKLVCYFTNWAHSRPGPASILPHLDPFLCTHLIFAFASMNQIVAKD
LQDEKILYPEFNKLKERNRELKTLISIGWNFGTSRFTTMLSTFANREKF IASVISLLRTHDFDGLDLFF
LYPGLRGSPMHRWTFLLFIEELLFAFRKEALLTMRPRLLL SAAVSGVPHIVQTSYDVRFLGRLLDFINV
LSYDLHGSWERFTGHNSPLFSLPEDPKSSAYAMNYWRKLGAPSEKLIMGIPTYGRTFRLLKASKNGLQAR
AIGPASPGKYTKQEGFLAYFEICSFVWGAKKHWIDYQYVPYANKGKEWVGYDNAISFSYKAWFIRREHFG
GAMVWTLDMDDVRGTFCTGTPFPLVYVLDILVRAEFSSTSLPQFWLSSAVNSSSTDPERLAVTTAWTTD
SKILPPGGEAGVTEIHGKCENMTITPRGTTVPTKETVSLGKHTVALGEKTEITGAMTMSVGHQSMTPG
EKALTPVGHQSVTTGQKTLTSVGYQSVTPGEKTLTPVGHQSVTPVSHQSVSPGGTMTVPVHFQTETLRQN
TVAPRRKAVAREKVTVPSRNI SVTPEGQTMPLRGENLTSEVGT HPRMGNLGLQME AENRMM LSSSPVIQL
PEQTPLAFDNRFVPIYGNHSSVNSVTPQT SPLSLKKEIPENSAVDEEA
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002557

ORF Size: 2034 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_002557.4](#)

RefSeq Size: 2258 bp

RefSeq ORF: 2037 bp

Locus ID: 5016

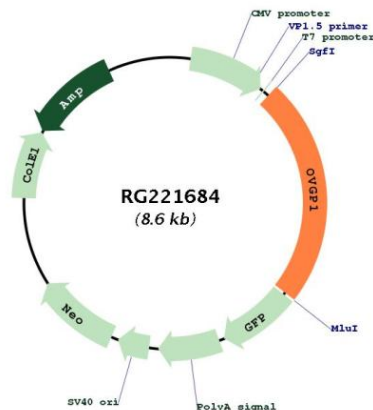
UniProt ID: [Q12889](#)

Cytogenetics: 1p13.2

Protein Families: Secreted Protein

Gene Summary: This gene encodes a large, carbohydrate-rich, epithelial glycoprotein with numerous O-glycosylation sites located within threonine, serine, and proline-rich tandem repeats. The gene is similar to members of the mucin and the glycosyl hydrolase 18 gene families. Regulation of expression may be estrogen-dependent. Gene expression and protein secretion occur during late follicular development through early cleavage-stage embryonic development. The protein is secreted from non-ciliated oviductal epithelial cells and associates with ovulated oocytes, blastomeres, and spermatozoan acrosomal regions. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG221684