

Product datasheet for **RG232527**

FPGT (NM_001199328) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FPGT (NM_001199328) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FPGT
Synonyms:	GFPP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232527 representing NM_001199328 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGTGTCTGCGGCGCGGTCTCAGGGAAGGTGGGGCTATGGCAGCTGCTAGGGACCCTCCGGAAGTAT
CGCTGCGAGAAGCCACCCAGCGAAAATTGCGGAGGTTTTCCGAGCTAAGAGGCAAACCTTGTAGCACGTGG
AGAATTCTGGGACATAGTTGCAATAACAGCGGCTGATGAAAAACAGGAACCTTGTACAACCAACAGCTG
TCAGAAAAGCTGAAAAGAAAGGAGTTACCCCTTGGAGTCAATATCACGTTTTTGTGGATCTGCTGGAG
CCAAAATTGGAATGGAGGATCAACACTTGTGCCCTCAATGTTGGAAAAGCTATATGGAGATAAATG
GAATTCCTTTACCATCTTATTAATTCACCTCTGGTGCTACAGTCAACGACTTCCAATGCAAGTGTCTG
GGAAAAATTTCACTGCTTTACCTCTTGATATACCAGAATGCTCTGGCAAAACATCCTGTATCATTCAAA
GCATACTGGATTCAAGATGTTCTGTGGCACCTGGCTCAGTTGTGGAGTATTCCAGATTGGGGCTGATGT
TTCAGTTGGGGAAAACCTGCATTATTAGTGGTCTTACATCCTAACAAAAGCTGCCCTCCCGCACATTCT
TTTGTATGTTCCCTAAGCTTAAAGATGAATAGATGCTTAAAGTATGCAACTATGGCATTGGAGTGAAG
ACAACCTGAAAAGAGTGTGAAAACATTGTCAGATATAAAGTACTTCAATCTTTGGAGTCTGTTTCT
GTCATGCTTAGATGTTTGAATCTTAAAGTTACAGAGGAACCTGTTCTCTGGTAACAAGACATGCTGAGT
TTGTGGACTGCACGCAATTTCCAGTTTGTCTCTTTGAGTGACTCAGTTATAACATCCCTAAAGATGT
TAAATGCTGTTAAGAACAAGTCAGCATTACGCCTGAATAGCTATAAGTTGCTGTCCATTGAAGAAATGCT
TATCTACAAAGATGTAGAAGATATGATAACTTACAGGGAACAAATTTTTCTAGAAATCAGTTTAAAAAGC
AGTTTGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232527 representing NM_001199328
Red=Cloning site Green=Tags(s)

MRAVRRGLREGGAMAAARDPPEVSLREATQRKLRRFSELRGKLVARGEFWDIVAITAADKQELAYNQQL
 SEKLKRKELPLGVQYHVFVDPAGAKIGNGGSTL CALQCLEKLYGDKWNSFTILLIHSGGYSQRLPNASAL
 GKIFTALPLDIPECSGKTSIIQSILDRCSVAPGSVVEYSRLGPDVSVGENCIISGSYILTKAALPAHS
 FVCSLSLKMNRCLKYATMAFGVQDNLKKSVKTLSDIKLLQFFGVCFLSCLDVWNLKVTEELFSGNKTCLS
 LWTARIFPVCSSLSDSVITSLKMLNAVKNKSAFSLNSYKLLSIEEMLIYKDVEDMITYREQIFLEISLKS
 SLM

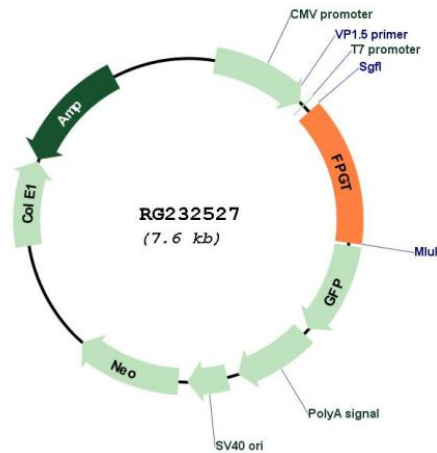
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001199328

ORF Size:	1059 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_001199328.2 , NP_001186257.2
RefSeq Size:	3960 bp
RefSeq ORF:	1023 bp
Locus ID:	8790
UniProt ID:	Q14772
Cytogenetics:	1p31.1
Protein Pathways:	Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism, Metabolic pathways
Gene Summary:	L-fucose is a key sugar in glycoproteins and other complex carbohydrates since it may be involved in many of the functional roles of these macromolecules, such as in cell-cell recognition. The fucosyl donor for these fucosylated oligosaccharides is GDP-beta-L-fucose. There are two alternate pathways for the biosynthesis of GDP-fucose; the major pathway converts GDP-alpha-D-mannose to GDP-beta-L-fucose. The protein encoded by this gene participates in an alternate pathway that is present in certain mammalian tissues, such as liver and kidney, and appears to function as a salvage pathway to reutilize L-fucose arising from the turnover of glycoproteins and glycolipids. This pathway involves the phosphorylation of L-fucose to form beta-L-fucose-1-phosphate, and then condensation of the beta-L-fucose-1-phosphate with GTP by fucose-1-phosphate guanylyltransferase to form GDP-beta-L-fucose. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the neighboring downstream TNNI3 interacting kinase (TNNI3K) gene. [provided by RefSeq, Dec 2010]