

Product datasheet for **MG215249**

Fpgt (NM_029330) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fpgt (NM_029330) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fpgt
Synonyms:	1700016E03Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG215249 representing NM_029330
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTCTCTCCGGAAGCCACCTGCGGAACTGCGCAGATTTTCTGAGCTGAGAGGCAAACCCGTGG
 CAGCTGGAGAATTCTGGGATGTGGTTGCAATAACAGCAGCTGATGAAAAGCAGGAGCTCGCTTACAAGCA
 ACAGTTGTCCGAGAAGCTGAAGAAAAGGAATTGCCTCTTGAGATTCAATACCATGTTTTCCAGATCCT
 GCTGGGACCAAAATTGGAATGGAGGATCAACACTTTGTTCCCTTGAGTGTGGAAAGCCTCTGTGGAG
 ACAAATGGAATTCTGAAGTCTGCTAATCCACTCTGGTGGCTACAGCCAACGCCTTCCAATGCGAG
 TGCTTTAGGAAAGATCTCACAGCCTTACCCTTGGTGAACCCATTTATCAGATTTGGAGTTAAAACTA
 GCCATGTACGTGGATTTCCCTCAAACATGAGGCCTGGAGTCTGGTACCTGTGCAGATGATATCGAAC
 TCTACAGTGTGGGACAGTACATTGCCTTTGACCAGCCTGGCTTTACTGCCTTAGCCCATCCGTC
 TAGTCTGGCTGTAGGCACTACTCATGGAGTATTTGTCTTGCACTCTGACAGTTCTTACAACATGGTGAC
 CTTGAGTACAGGCAATGCTACCAATTCCTCCACAAGCCACCATTGAAAACATGCACCGCTTAATGCTG
 TGCATAGACAACGAAGCTTTGGTCAACAGAAGTGTCTGGAGGTGACACTGACTGTCTTCCATTGCACAC
 TGAGTATGTCTACACAGATAGCCTGTTTTACATGGATCACAAATCAGCCAAAAAGTTACTTGATTCTAT
 AAAAGTGAAGGCCACTGAACTGTGAAATAGATGCCTATGGAGACTTTCTTCAGGCACTGGGCTGGAG
 CAACTGCAGAGTACACCAGGAACACATCTCATGCTACTAAAGAAGAGTCCCAGTTGTTGGACATGAGGCA
 GAAAATATTCCACCTCCTCAAGGGAACACCCTGAATGTTGTTGTTCTTAATAACTCCAGATTTTATCAC
 ATTGGAACACTGCAAGAGTATCTGCTTCACTTCCCTGAGCCTCCAGTGGAAACAGCCTGTGTCATTACAG
 AATCCATAGCTTTCAGTGTCTCTCCAAGTGTCTGAGCCTCCAGTGGAAACAGCCTGTGTCATTACAG
 TATAGTGGATTACAGGATGCTGTGTGGCCCTGGCTCAGTGGTAGAGTATTCTAGATTGGGCTGAGGTG
 TCCATCGGGGAAAAGTGCATTATCAGCAGTTCTGTCTAGCAAAAAGTGTGTGCCAGCATATTCTTTTT
 TGTGTTCTTAAAGTGTGAAGATAAATGGACTTAAAATATTCTACTATGGTGTGGCATGCAAGACAA
 CTTGAAGAACAGTGTAAAACACTGGAAGACATAAAGGCCTTCAAGTCTTTGGAGTCTGTTTTCTGTCT
 TGTTTAGACATTTGGAATCTTAAAGCTACAGAGAACTATTCTCTGAAAATAAGTGAATCTGAGCCTGT
 GGACTGCACGATTTTCCCTGTCTGTTTCTCTGAGTGTGAGTGGCTACAGCATCCCTTGGGATGTTAAG
 CGCTGTAAGGAACATTACCATTCAACCTAAGTACTTAACTTTTGTCCATCCAGGAAATGCTTGTGTC
 TACAAAGATGTACAAGACATGCTAGCTTATAGGGAACACATTTTTCTAGAAATTAGTTCAAATAAAAATC
 AATCTGATTTAGAGAAATCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG215249 representing NM_029330
 Red=Cloning site Green=Tags(s)

MASLREATLRKLRRFSELRGKPVAAAGFEWVVAITAADEKQELAYKQQLSEKLLKRELPLGVQYHVFPDP
 AGTKIGNGGSTLCSLECLESLCGDKWNSLKVLLIHSGGYSQRLPNASALGKIFTALPLGEPYQMLELKL
 AMYVDFPSNMRPGLVTCADDIELYSVDSEYIAFDQPGFTALAHPSLAVGTTTHGVFVLDHSDSSLQHGD
 LEYRQCYQFLHKPTIENMHRFNAVHRQRSFGQQLSGGDTDCLPLHTEVYVYDLSLFYMDHKSAKKLLDFY
 KSEGPLNCEIDAYGDFLQALGPGATAEYTRNTSHVTKEESQLLDMRQKIFHLLKGTPLNVVVLNNSRFYH
 IGTLQEYLLHFTSDSALKTELGLQSIAFSVSPSPERSSGTACVIHSIVDSGCCVAPGSVVEYSRLGPEV
 SIGENCISSSVIAKTVVPAYSFLCSLSVKINGHLKYSTMVFGMQDNLKNSVKTLLEDIKALQFFGVCFLS
 CLDIWNLKATEKLFSGNKMNLSLWTARIFPVCSSLSESATASLGMLSAVRNHSPFNLSDFNLLSIQEMLY
 YKDVQDMLAYREHIFLEISSNKNQSDLEKS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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_029330.2 , NP_083606.2
RefSeq Size:	3526 bp
RefSeq ORF:	1773 bp
Locus ID:	75540
UniProt ID:	G5E8F4
Cytogenetics:	3 H4
Gene Summary:	Catalyzes the formation of GDP-L-fucose from GTP and L-fucose-1-phosphate (PubMed:14686921). Functions as a salvage pathway to reutilize L-fucose arising from the turnover of glycoproteins and glycolipids (Probable).[UniProtKB/Swiss-Prot Function]