

Product datasheet for **MR215249**

Fpgt (NM_029330) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fpgt (NM_029330) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fpgt
Synonyms:	1700016E03Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR215249 representing NM_029330
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTCTCTCCGGAAGCCACCTGCGGAACTGCGCAGATTTCTGAGCTGAGAGGCAAACCCGTGG
 CAGCTGGAGAATTCTGGGATGTGGTTGCAATAACAGCAGCTGATGAAAAGCAGGAGCTCGCTTACAAGCA
 ACAGTTGTCCGAGAAGCTGAAGAAAAGGAATTGCCTCTTGAGATTCAATACCATGTTTTCCAGATCCT
 GCTGGGACCAAAATTGGAATGGAGGATCAACACTTTGTTCCCTTGAGTGTGGAAAGCCTCTGTGGAG
 ACAAATGGAATTCTGAAGTCTGTAATCCACTCTGGTGGCTACAGCCAACGCCTTCCAATGCGAG
 TGCTTTAGGAAAGATCTCACAGCCTTACCCTTGGTGAACCCATTTATCAGATGTTGGAGTTAAAACTA
 GCCATGTACGTGGATTTCCCTCAAACATGAGGCCTGGAGTCTGGTACCTGTGCAGATGATATCGAAC
 TCTACAGTGTGGGACAGTACATGCTTTGACCAGCCTGGCTTTACTGCCTTAGCCCATCCGTC
 TAGTCTGGCTGTAGGCACTACTCATGGAGTATTTGTCTTGCACTCTGACAGTTCTTACAACATGGTGAC
 CTTGAGTACAGGCAATGCTACCAATTCCTCCACAAGCCACCATTGAAAACATGCACCGCTTAATGCTG
 TGCATAGACAACGAAGCTTTGGTCAACAGAAGTGTCTGGAGGTGACACTGACTGTCTTCCATTGCACAC
 TGAGTATGTCTACACAGATAGCCTGTTTTACATGGATCACAAATCAGCCAAAAGTTACTTGATTCTAT
 AAAAGTGAAGGCCACTGAACTGTGAAATAGATGCCTATGGAGACTTTCTTCAGGCACTGGGCTGGAG
 CAACTGCAGAGTACACGAGAACACATCTCATGCTACTAAAGAAGAGTCCCAGTTGTTGGACATGAGGCA
 GAAAATATTCCACCTCCTCAAGGAAACACCCTGAATGTTGTTGTTCTTAATAACTCCAGATTTTATCAC
 ATTGGAACACTGCAAGAGTATCTGCTTCACTTCCCTCTGATAGTGCATTAAGACGGAGCTGGGCTTAC
 AATCCATAGCTTTCAGTGTCTCTCAAGTGTCTGAGCGCTCCAGTGGAAACAGCCTGTGCTACACAG
 TATAGTGGATTACAGGATGCTGTGTGGCCCTGGCTCAGTGGTAGAGTATTCTAGATTGGGCTGAGGTG
 TCCATCGGGGAAAAGTGCATTATCAGCAGTTCTGTCTAGCAAAAAGTGTGTGCCAGCATATTCTTTTT
 TGTGTTCTTAAAGTGTGAAGATAAATGGACTTAAAATATTCTACTATGGTGTGGCATGCAAGACAA
 CTTGAAGAACAGTGTAAAACACTGGAAGACATAAAGGCCTTCAAGTCTTTGGAGTCTGTTTTCTGTCT
 TGTTTAGACATTTGGAATCTTAAAGCTACAGAGAACTATTCTCTGAAAATAAGTGAATCTGAGCCTGT
 GGACTGCATGCATTTCCCTGTCTGTTTCTCTGAGTGTGCGCTACAGCATCCCTGGGATGTTAAG
 CGCTGTAAGGAACATTACCATTCAACCTAAGTACTTAACTTTTGTCCATCCAGGAAATGCTTGTCT
 TACAAAGATGTACAAGACATGCTAGCTTATAGGGAACACATTTTTCTAGAAATTAGTTCAAATAAAAATC
 AATCTGATTTAGAGAAATCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR215249 representing NM_029330
 Red=Cloning site Green=Tags(s)

MASLREATLRKLRRFSELRGKPVAAAGFEWVVAITAADKQELAYKQQLSEKLLKRELPLGVQYHVPDP
 AGTKIGNGGSTLCSLECLESLCGDKWNSLKVLLIHSGGYSQRLPNASALGKIFTALPLGEPYQMLELKL
 AMYVDFPSNMRPGVLVTCADDIELYSVDSEYIAFDQPGFTALAHPSLAVGTTGTVFLHSDSSLQHG
 LEYRQCQYFLHKPTIENMHRFNAVHRQRSFGQQLSGGDTDCLPLHTEYVYTDLSLFYMDHKSAKLLDFY
 KSEGPLNCEIDAYGDFLQALGPGATAEYTRNTSHVTKEESQLLDMRQKIFHLLKGTPLNVVVLNNSRFYH
 IGTLQEYLLHFTSDSALKTELGLQSIAFSVSPSPERSSTACVISHIVDSGCCVAPGSVVEYSRLGPEV
 SIGENCISSSVIAKTVVPAYSFLCSLSVKINGHLKYSTMVFGMQDNLKNSVKLTLEDIKALQFFGVCFLS
 CLDIWNLKATEKLFSGNKMNSLWTACIFPVCSLSESATASLGMLSAVRNHSPFNLSDFNLLSIQEMLY
 YKDVQDMLAYREHIFLEISSNKNQSDLEKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9061_h06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029330

ORF Size: 1770 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_029330.2](#), [NP_083606.2](#)

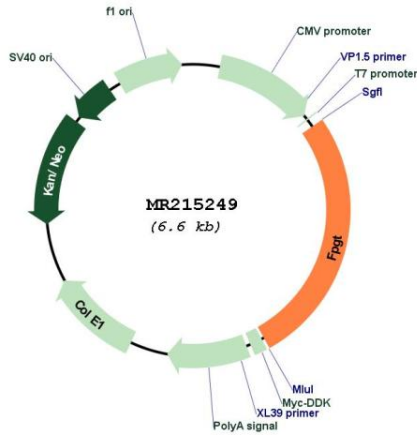
RefSeq Size: 3526 bp

RefSeq ORF: 1773 bp

Locus ID: 75540

UniProt ID: [G5E8F4](#)
 Cytogenetics: 3 H4
 MW: 65.4 kDa
 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]

Product images:



Circular map for MR215249