

Product datasheet for **RG203749**

C1orf2 (FAM189B) (NM_006589) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	C1orf2
Synonyms:	C1orf2; COTE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG203749 representing NM_006589
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGATGCCCTCGCCTAGTGACTCCAGCCGCTCGCTGACCAGCCGGCCAGCACCAGGGGCTTACCCACC
 TCCGCCTCCACCGACCTGGCTGCAGGCCCTGCTTACGCTGGGGCTGGTCCAAGTGCTCCTGGGCATCCT
 GGTGGTCACCTTACGATGGTGGCCTCTTCCGTCAACCACCCAGAGCATCAAGAGGTCTGCCCGTCT
 TGGGCTGGGTTCTCGTGGCGTTCTCCGGGTGGTGGCATTGTGTCTGGAAGCGGCCATCACTCTAG
 TGATCTCCTTCTCTCTTGTCTTCCGGTCTGTGTCTATGCTTACGATGGTGGCTCTGTTCTCTCTG
 TAAGAAATGCTCAACTGGCCCGAGACTTCAACAGTGCTCTCTGGAAGGAAAGGTCTGTGTGTGCTCTCC
 TCTGTTCCCTCTCCGGCCCTGTCCAGAGTCGGGGCAGGAAGTGAAGTTGCCCTAACTCCACCTGTG
 ATGAAGCCCGAGGGGCCCTCAAGAAGCTGCTTTCAGCGTCTGTGGGCTCACCATTGTGCCGTATAAT
 CTGTACACTCTCTGCTATTGTCTGCTGCATCCAAATCTTCTCCCTGGACCTCGTGCATACGCTGGCCCT
 GAGCGGTCACTCTCAGGCCACTGGGACCTCTGGGCTGCACGTCCCCGCCCCAGCCCTCTCCTACACA
 CCATGCTGGACCTGGAGGAATTTGTCCCGCTGTGCCCCACCGCCCTACTATCCCCAGAGTATACCTG
 CAGCTCAGAAACAGATGCACAGAGCATCACGTACAATGGTCCATGGACAGCCAGTCCCTTGTACCCT
 ACCGATTGCCCCCTTCTTATGAGGCAGTCATGGGACTACGAGGAGACGCCAGGCCACTCTCTTTGACC
 CTCAGCTTACGATGGCTCGTGCATCTGTGAACGAGTGGCCTCCATTGTAGACGTGCCATGGACAGCGG
 GTCTCTGGTGTCTCAGCCATTGGTGACCTCCCTGGGGCTCTAGCCCGTCGAGGACTCGTGCCTGCTG
 GAGTGCAGGGTCCGTGCGCTCCGTGGACTACGTTCTCTTTCGCTCCATCCAGCGCAGCCGTGCCGGCT
 ACTGCCTCAGCCTGGACTGTGGCTGCGGGGCCCTTCGAGGAAAGCCCTGCCACGGCGCCCCCAGC
 GGCTGCCCCGTCTATTCTGCTCTGCCCTGAAGCTCCACCCCACTGGGTGCCCCACAGCTGCCCGC
 AGCTGCCACCGGTTGGAGGGCTGGCCGCCCTGGGTGGGACCTGCTTCCCCGAGCTGAGGCGGGGGTCC
 CCGGGGAGGGGGCCGCCAGCCGAGCCCGCCACCCGAGCCCGACTCGTCGTTACAGCATAGCTC
 AGGTTCCCTCACCACCGGGGACCGGCTCTCATCCGCATCCCCACCACCGCTGCTGCTGCCACGG
 TCCCACAGCGACCCAGGCATCAGACCTCCAGTGACACTGCTGACTTCAGGGACCTTTATACCAAGTGC
 TTGAGGAAGAAGCTGCTTCTGTTCTCTGCAGATACAGGGCTCTGCTCTGAAGCTGCCTCTTCCGCT
 AGCCCGCTGCCCTTCCCCAAGTTGCTACGTGCCCGGTGAGCCGAGAAACGGCGCCCTGTGCCACCTTC
 CAAAAAGTTCCCTGCCCTCGGGCCTGCACCTGCCACTCCCTGGGGACCTAAAGGCAGCTGCCAG
 GTCGGGGCTGGTCACTCGTTTCTCCAGATATCCAGGAAAGCCCGAGACCCAGTGGGACTGGAGCTCA
 TGGACATAAGCAGGTGCCCCGAGCCTGTGGGGCCGGCTGGCCGAGAGAGCCTCCACCTTCGACGTGC
 GGAGATCTGAGCTCTAGCTCTTCCCTGCGGCGTCTCTGTCTGGCCGAGGCTGGAGCGTGGTACCCGCC
 CCCACAGCTCAGCCTCAACGGGGGAGCCGGGAGACTGGGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

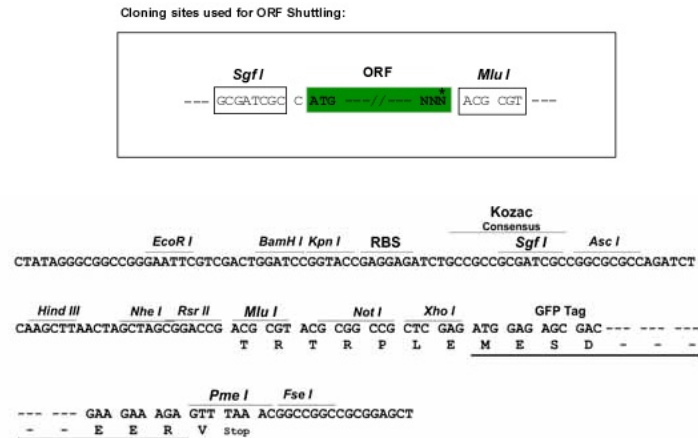
Protein Sequence: >RG203749 representing NM_006589
 Red=Cloning site Green=Tags(s)

MMPSPSDSSRLTSRSTRGLTHRLHRPWLQALLTLGLVQVLLGILVVTFSMVASSVTTTESIKRSCPS
 WAGFSLAFSGVVGIVSWKRPFTLVISFFSLLSVLCVMLSMAGSVLSCKNAQLARDFQQCSLEGKVCVCCP
 SVPLLRPCPESGQELKVAPNSTCDEARGALKNLLFSVCLTICAAICTLSAIVCCIQIFSLDLVHTLAP
 ERSVSGPLGPLGCTSPPPAPLLHTMLDLEEFVPPVPPPPYPPEYTCSSSETDAQSITYNGSMDSPVLYP
 TDCPPSYEAVMGLRGDSQATLFDLPQLHDGSCICERVASIVDVSMDSGSLVLSAIGDLPGGSSPSEDSCLL
 ELQGSVRSVDYVLFRSIQRSRAGYCLSLDCGLRGPFEEESPLPRRPRAARSYSYCSAPEAPPLGAPTAAR
 SCHRLEGWPPWVGPCFPELRRRVPRGGRPAAAPTRAPTRRFSDSSGSLTPPGHRPPHPASPPPLLLPR
 SHSDPGITTSDDTADFRDLYTKVLEEEAASVSSADTGLCSEACFLRLARCPSPKLLRARSAEKRRPVPTF
 QKVPLPSGPAPAHSLGDLKGSWPGRLVTRFLQISRKAPDPSGTGAHGKHQVPRSLWGRPGRESLHLRSC
 GDLSSSSSLRRLSGRRLERGRPHSLSLNGSRETGL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006589

ORF Size: 2004 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.

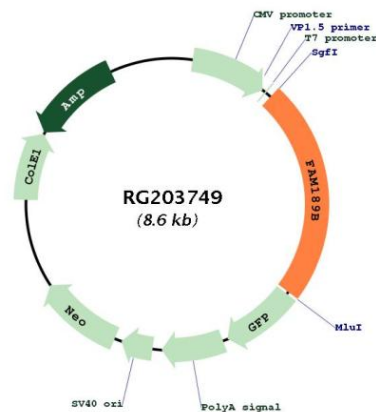
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_006589.3](#)

RefSeq Size: 3209 bp

RefSeq ORF:	2007 bp
Locus ID:	10712
UniProt ID:	P81408
Cytogenetics:	1q22
Protein Families:	Transmembrane
Gene Summary:	This gene is located near the gene for the lysosomal enzyme glucosylceramidase; a deficiency in this enzyme is associated with Gaucher disease. The encoded protein has been identified as a potential binding partner of a WW domain-containing protein which is involved in apoptosis and tumor suppression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RG203749