

Product datasheet for **RG234654**

C1orf2 (FAM189B) (NM_001267608) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C1orf2 (FAM189B) (NM_001267608) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C1orf2
Synonyms:	C1orf2; COTE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG234654 representing NM_001267608
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATGCCCTCGCCTAGTGAAGTCCAGCCGCTCGTGACCAGCCGCGCCAGCACCAGGGGCCCTTACCCACC
 TCCGCCTCCACCAGCCCTGGCTGCAGGCCCTGCTTACGCTGGGGCTGGTCCAAGTCTCCTGGGCATCCT
 GGTGGTACCTTCAGCATGGTGGCTCTTCCGTCAACACCACCGAGAGCATCAAGAGTCTCGCCGTCT
 TGGGCTGGGTCTCGATCTCTTCTCTCTTCTGCTTTCGGTGTCTGTGTGATGCTTAGCATGGTGGCT
 CTGTTCTCTCCTGTAAGAATGCTCAACTGGCCGAGACTTCCAACAGTGTCTCTGGAAGGAAAGGTCTG
 TGTGTGTGTCTCTGTTCCCTCTCCGCCCTGTCCAGAGTCGGGGCAGGAAGTGAAGTTGCCCT
 AACTCCACCTGTGATGAAGCCCAGGGGCCCTCAAGAACCTGCTTTCAGCGTCTGTGGGCTCACCATT
 GTGCCGTATAATCTGTACACTCTGTCTATTGTCTGTGCATCCAAATCTTCTCCCTGGACCTCGTGCA
 TACGACGTGGCCCTGAGCGGTAGTCTCAGGCCACTGGGACCTCTGGGCTGCACGTCCCGCCCCCA
 GCCCTCTCTACACACCATGCTGGACCTGGAGGAATTTGTCCCGCTGTGCCCCACCGCCCTACTATC
 CCCCAGAGTATACCTGCAGCTCAGAAACAGATGCACAGAGCATACGTACAATGGCTCCATGGACAGCCC
 AGTGCCCTTGTACCCTACCGATTGCCCCCTTCTTATGAGGCAGTCATGGGACTACGAGGAGACAGCCAG
 GCCACTCTCTTGACCCTCAGCTTACGATGGCTCGTGCATCTGTGAACGAGTGGCTCCATTGTAGACG
 TGTCCATGGACAGCGGTCTCTGGTGTGTGAGCCATTGGTGACCTCCCTGGGGGCTCTAGCCCGTCGGA
 GGACTCGTGCCTGCTGGAGTGCAGGGCTCCGTGCGCTCCGTGGACTACGTTCTCTTTCGCTCCATCCAG
 CGCAGCCGTGCCGGCTACTGCCTCAGCTGAGCTGTGGCTGCGGGGCCCTTCGAGGAAAGCCCCCTGC
 CACGGCGCCCCCACGGGCTGCCCGCTCCTATTCTGCTGTGCCCCCTGAAGCTCCACCCCACTGGGTGC
 CCCCACAGCTGCCCGCAGCTGCCACCGTTGGAGGGCTGGCCGCCCTGGGTGGGACCTGCTTCCCGAG
 CTGAGGCGGGGGTCCCCGGGGAGGGGCCGCCAGCCGACGCCCGCCACCCGAGCCCCGACTCGTC
 GCTTCAGCGATAGCTCAGGTTCCCTCACCCACCGGGGACCGGCCTCCTCATCCGGCATCCCCACCACC
 GCTGCTGCTGCCACGGTCCCACAGCAGCCAGGCATCACGACCTCCAGTGACACTGCTGACTTCAGGGAC
 CTTTATACCAAGTGCTTGAGGAAGAAGCTGCTTCTGTTCTCTGCAGATACAGGGCTCTGCTCTGAAG
 CCTGCCTCTTCCGCTAGCCCGTGCCTTCCCCAAGTTGCTACGTGCCCGGTAGCCGAGAAACGGCG
 CCCTGTGCCACCTTCAAAAAGTTCCCTGCCCTCGGGCCTGCACCTGCCACTCCCTGGGGACCTA
 AAGGGCAGCTGGCCAGGTGGGGCTGGTCACTCGTTTCTCCAGATATCCAGGAAAGCCCCAGACCCCA
 GTGGGACTGGAGCTCATGGACATAAGCAGGTGCCCGGAGCCTGTGGGGCGGGCTGGCCGAGAGAGCCT
 CCACCTTCGACAGCTGCGGAGATCTGAGCTCTAGCTCTTCCCTGCGGCGTCTCTGTCTGGCCGAGGCTG
 GAGCGTGGTACCGCCCCCAGCCTCAGCCTCAACGGGGGACCGGGGAGACTGGGCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

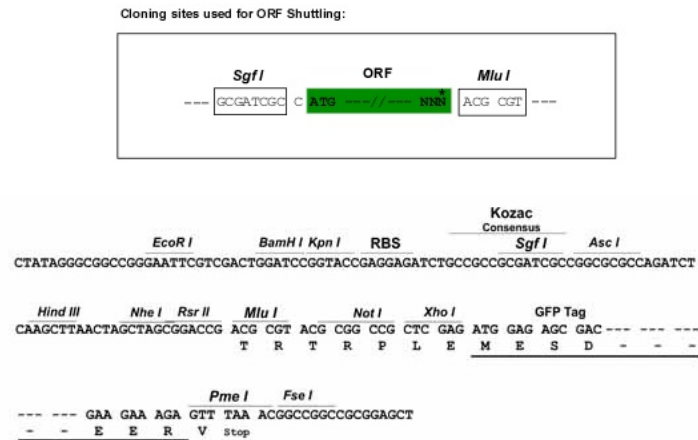
>RG234654 representing NM_001267608
 Red=Cloning site Green=Tags(s)

MMPSPSDSSRSLTSRSTRGLTHLRHPWLQALLTLGLVQVLLGILVVTFSMVASSVTTTESIKRSCPS
 WAGFSISFFSLLSVLCVMSMAGSVLSCKNAQLARDFQQCSLEGKVCVCCPSVPLLRPCPESGQELKVAP
 NSTCDEARGALKNLLFSVGLTICAAIICITLSAIVCCIQIFSLDLVHTQLAPERSVSGPLGPGCTSPPP
 APLLHTMLDLEEFVPPVPPPPYPPEYTCSETDAQSITYNGSMDSPVPLYPTDCPPSYEAVMGLRGDSQ
 ATLFDPQLHDGSCICERVASIVDVSMDSGSLVLSAIGDLPGGSSPSEDSCLLELQGSVRSVDYVLFRSIQ
 RSRAGYCLSLDCGLRGPFEEESPLRRPPRAARSYSCSAPEAPPPLGAPTAAARSCHRLGWPPWVGPCFPE
 LRRRVPRGGRPAAAPTRAPTRRFSDSGSLTPPGHRPPHPASPPPLLLPRSHSDPGITSSDADFRD
 LYTKVLEEEAASVSSADTGLCSEACFLRLARCPSPKLLRARSARKRRPVPTFQKVPLPSGPAPASHLGD
 KGSWPGRGLVTRFLQISRKAPDPSGTGAHGKQVPRSLWGRPGRESLHLRSCGDLSSSSSLRRLSGRRL
 ERGTRPHSLSLNGGSRETGL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001267608

ORF Size: 1950 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_001267608.2](#)

RefSeq Size: 3154 bp

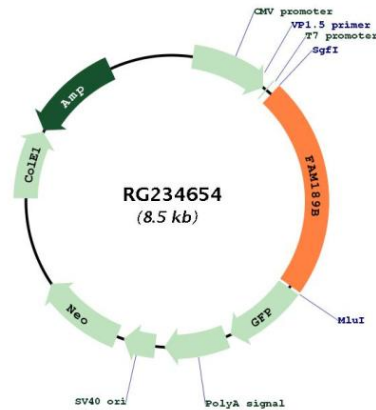
RefSeq ORF: 1953 bp

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 RG234654