

## Product datasheet for **RG234857**

### **EMR2 (ADGRE2) (NM\_001271052) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EMR2 (ADGRE2) (NM_001271052) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EMR2
Synonyms:	CD97; CD312; EMR2; VBU
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234857 representing NM\_001271052  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGAGGCCGCTCTTTCTCGTCTTTCTCGATTCTGTGTCTGGCTGACTCTGCCGGGAGCTGAAACCC  
 AGGACTCCAGGGGCTGTGCCGGTGGTGCCTCAGGACTCCTCGTGTGCAATGCCACCGCTGTGCTG  
 CAATCCAGGGTTCAGCTCTTTTTCTGAGATCATACCACCCCATGGAGACTTGTGACGACATCAACGAG  
 TGTGCAACACTGTGAAAGTGTATGCGGAAAATTCTCGGACTGCTGGAACACAGAGGGGAGCTACGACT  
 GCGTGTGACAGCCAGGATATGAGCCTGTTTCTGGGGCAAAAACATTCAAGAATGAGAGCGAGAACACGTG  
 TCAAGATGTGGACGAATGTCAGCAGAACCAAGGCTCTGTAAAAGCTACGGCACCTGCGTCAACACCCTC  
 GGCAGTACACGTGCCAGTGCCTGCCTGGCTTCAAGCTCAAACCTGAGGACCCGAAGCTCTGCACAGATG  
 TGAATGAATGCACCTCCGGACAAAACCCATGCCACAGCTCCACCCACTGCCTCAACAACGTGGGCAGCTA  
 TCAGTGCCGCTGCCGCCGGGCTGGCAACCGATTCCGGGGTCCCCAATGGCCAAACAATACCGTCTGT  
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 GTTCATACAGCTGCCGCTGCCGCCAGGCTGGAAGCCAGACACGGAATCCCGAATAACAAAAGGACAC  
 TGTCTGTGAAGATATGACTTTCTCCACCTGGACCCCGCCCTGGAGTCCACAGCCAGACGCTTTCCCGA  
 TTCTTCGACAAAGTCCAGGACCTGGGCAGAGACTACAAGCCAGGCTTGGCCAATAACACCATCCAGAGCA  
 TCTTACAGGCGCTGGATGAGCTGCTGGAGGCCCTGGGGACCTGGAGACCCTGCCCGCTTACAGCAGCA  
 CTGTGTGGCCAGTCACTGCTGGATGGCCTAGAGGATGTCCTCAGAGGCTGAGCAAGAACCTTTCCAAT  
 GGGCTGTTGAACCTCAGTTATCCTGCAGGCACAGAATTGTCCTGGAGGTGAGAAGCAAGTAGACAGGA  
 GTGTCACCTTGAGACAGAATCAGGCAGTATGCAGCTCGACTGGAATCAGGCACAGAAATCTGGTGACCC  
 AGGCCCTTCTGTGGTGGCCTTGTCTCCATTCCAGGGATGGGCAAGTTGCTGGCTGAGGCCCTCTGGTC  
 CTGGAACCTGAGAAGCAGATGCTTCTGCATGAGACACACCAGGGCTTGTGTCAGGACGGCTCCCCATCC  
 TGCTCTCAGATGTGATCTCTGCCTTTCTGAGCAACAACGACACCCAAAACCTCAGCTCCCCAGTTACCTT  
 CACCTTCTCCACCGTGAGGAGGATCCCGTGTGACTGTCATCACCTACATGGGGCTGAGCGTCTCTCTG  
 CTGTGCCTCCTCCTGGCGGCCCTCACTTTTCTCCTGTGTAAGCCATCCAGAACCAGCACCTCACTGC  
 ATCTGCAGCTCTCGCTCTGCCTTCTCCTGGCCACCTCCTTCTCCTCGTGGCAATTGATCAAACCGGACA  
 CAAGGTGCTGTGCTCCATCATCGCCGTACCTTGCACTATCTCTACCTGGCCACCTTGACCTGGATGCTG  
 CTGGAGGCCCTGTACCTTCTCCTCACTGCACGGAACCTGACGGTGGTCACTACTCAAGCATCAACAGAT  
 TCATGAAGAAGCTCATGTTCCCTGTGGGTACGGAGTCCAGCTGTGACAGTGGCCATTTCTGCAGCCTC  
 CAGGCCTCACCTTATGGAACACCTTCCCGCTGCTGGCTCCAACCAGAAAAGGGATTTATATGGGGCTTC  
 CTTGGACCTGTCTGCGCCATCTTCTGTGAAATTTAGTTCTTTTCTGGTACTCTCTGGATTTTGAAAA  
 ACAGACTCTCCTCCCTCAATAGTGAAGTGTCCACCCTCCGGAACACAAGGATGCTGGCATTAAAGCGAC  
 AGCTCAGCTGTTTCATCCTGGGCTGCACGTGGTGTCTGGGCATCTGACAGTGGTCCGGCTGCCCGGTC  
 ATGGCCTACCTTTCACCATCATCAACAGCCTGCAGGGTGTCTTCATCTTCTGGTGTACTGCCTCCTCA  
 GCCAGCAGGTCCGGGAGCAATATGGGAAATGGTCAAAGGGATCAGGAAATTGAAAACCTGAGTCTGAGAT  
 GCACACACTCTCCAGCAGTGTAAAGCTGACACCTCCAACCCAGCACGGTTAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG234857 representing NM\_001271052  
Red=Cloning site Green=Tags(s)

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MGRVFLVFLAFCVWLTLPGAETQDSRGCARWCPQDSSCVNATACRCNPGFSSFSEIITTPMETCDDINE
CATLSKVSCGKFSDCWNETEGSYDCVCSPGYEPVSGAKTFKNESENTCQDVDECQNPRLCKSYGTCVNTL
GSYTCQCLPGFKLPEDPKLCTDVNCTSGQNPCHSSTHCLNNVGSYQCRCRPGWQPIPGSPNGPNTVC
EDVDECSGQHQCDSSSTVCFNTVGSYSCRCPGWKPRHGIPNNQKDTVCEDMTFSTWTPPPVGHSQTLRSR
FFDKVQDLGRDYKPGLANNTIQSILQALDELLEAPGDLETLPRLQQHCVASHLLDGLDVLRLGSKNLSN
GLLNFSYPAGTELSEVQKQVDRSVTLRQNQAVMQLDWNQAQKSGDPGPSVYVGLVSPGMPKLLAEAPLV
LEPEKQMLLHETHQGLLQDQSPILLSDVISAFLSNNDTQNLSSPVTFTFSHREEDPVLTVITYMGLSVSL
LCLLLAALTFLLCKAIQNTSTSLHLQLSLCLFLAHLFLVAIDQTGHKVLCSIIAGTLHYLYLATLTMWL
LEALYLFLTARNLTVVNYSSINRFMKLMFPVGYGVPVAVTVAISAASRPHLYGTPSRCWLQPEKGFIWGF
LGPVCAIFSVNLVFLVTLWILKNRLSSLNSEVSTLRNTRMLAFKATAQLFILGCTWCLGILQVGPAAARV
MAYLFTIINSLQGVFIFLVYCLLSQQVREQYQKWSKGIRKCLKTESEMHTLSSSAKADTSKPSTVN
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001271052

**ORF Size:** 2295 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\\_001271052.1](#), [NP\\_001257981.1](#)

**RefSeq Size:** 6024 bp

**RefSeq ORF:** 2298 bp

**Locus ID:** 30817

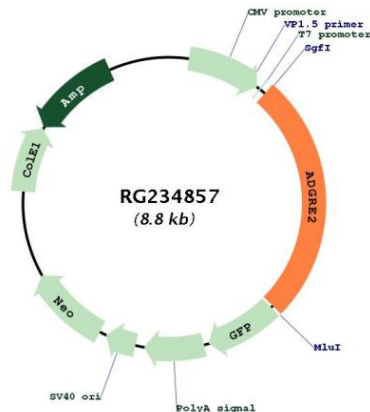
**UniProt ID:** [Q9UHX3](#)

**Cytogenetics:** 19p13.12

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Gene Summary:** This gene encodes a member of the class B seven-span transmembrane (TM7) subfamily of G-protein coupled receptors. These proteins are characterized by an extended extracellular region with a variable number of N-terminal epidermal growth factor-like domains coupled to a TM7 domain via a mucin-like spacer domain. The encoded protein is expressed mainly in myeloid cells where it promotes cell-cell adhesion through interaction with chondroitin sulfate chains. This gene is situated in a cluster of related genes on chromosome 19. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2012]

**Product images:**



Circular map for RG234857