

Product datasheet for **RG223677**

EMR2 (ADGRE2) (NM_152918) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EMR2 (ADGRE2) (NM_152918) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EMR2
Synonyms:	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:

>RG223677 representing NM_152918
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGAGGCCGCTTTTCTCGTCTTTCTCGATTCTGTGTCTGGCTGACTCTGCCGGGAGCTGAAACCC
 AGGACTCCAGGGGCTGTGCCGGTGGTGCCTCAGGACTCCTCGTGTGCAATGCCACCGCTGTGCTG
 CAATCCAGGGTTCAGCTCTTTTTCTGAGATCATACCACCCCATGGAGACTTGTGACGACATCAACGAG
 TGTGCAACACTGTGAAAGTGTATGCGGAAAATTCTCGGACTGCTGGAACACAGAGGGGAGCTACGACT
 GCGTGTGACGCCAGGATATGAGCCTGTTTCTGGGGCAAAAACATTCAAGAATGAGAGCGAGAACACGTG
 TCAAGATATGACTTTCTCCACCTGGACCCGCCCTGGAGTCCACAGCCAGACGCTTTCCCGATTCTTC
 GACAAAGTCCAGGACCTGGCAGAGACTACAAGCCAGGCTTGCCAATAACACCATCCAGAGCATTTAC
 AGGCGCTGGATGAGCTGCTGGAGGCCCTGGGGACCTGGAGACCTGCCCGCTTACAGCAGCACTGTGT
 GGCCAGTCACTGCTGGATGGCCTAGAGGATGTCTCAGAGGCCCTGAGCAAGAACCTTTCCAATGGGCTG
 TTGAATTCAGTTATCCTGCAGGCACAGAATTGTCCCTGGAGGTGCAAGAACAAGTAGACAGGAGTGTCA
 CCTTGAGACAGAATCAGGCAGTGTATGCAGCTCGACTGGAATCAGGCACAGAAAATCTGGTGACCCAGGCC
 TTCTGTGGTGGGCCTTGCTCCATTCCAGGGATGGGCAAGTTGCTGGCTGAGGCCCTCTGGTCTGGAA
 CCTGAGAAGCAGATGCTTCTGCATGAGACACACCAGGGCTTGCTGAGGACGGCTCCCCATCCTGCTCT
 CAGATGTGATCTCTGCCTTTCTGAGCAACAACGACACCCAAAACCTCAGTCCCCAGTTACCTTCACCTT
 CTCCCACCGTTTCAGTGATCCCGAGACAGAAGGTGCTCTGTGTCTCTGGGAGCATGGCCAGAATGGATGT
 GGTCACTGGGCCACCACAGGCTGCAGCACAATAGGCACCAGAGACACCAGCACCATCTGCCGTTGCACCC
 ACCTGAGCAGCTTGCCTCCTCATGGCCCACTACGATGTGCAGGAGGAGGATCCCGTGTGACTGTCAT
 CACCTACATGGGGCTGAGCGTCTCTGTGTGCTCCTCCTGGCGGCCCTCACTTTTCTCTGTGTAAA
 GCCATCCAGAACCAGCACCTCACTGCATCTGCAGCTCTCGCTCTGCCTCTTCTGGCCACCTCCTCT
 TCCTCGTGGCAATTGATCAAACCGGACACAAGGTGCTGTGCTCCATCATCGCCGGTACCTTGCACTATCT
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 GTGGTCAACTACTCAAGCATCAACAGATTATGAAGAAGCTCATGTTCCCTGTGGGCTACGGAGTCCCAG
 CTGTGACAGTGGCATTCTGCAGCCTCCAGGCCCTCACCTTTATGGAACACCTTCCCGCTGCTGGCTCCA
 ACCAGAAAAGGGATTTATATGGGGCTTCTTGGACCTGTCTGCGCCATCTTCTGTGAATTTAGTTCTC
 TTTCTGGTGACTCTCTGGATTTTAAAAACAGACTCTCCTCCCTCAATAGTGAAGTGTCCACCCTCCGGA
 ACACAAGGATGCTGGCATTAAAGCGACAGCTCAGCTGTTTCATCCTGGGCTGCACGTGGTGTCTGGGAT
 CTTGACAGTGGTCCGGCTGCCGGGTCATGGCCTACCTTTACCATCATCAACAGCCTGCAGGGTGTG
 TTCATCTTCTGGTGTACTGCCTCCTCAGCCAGCAGGTCGGGAGCAATATGGGAAATGGTCCAAAGGGA
 TCAGGAAATTGAAAACCTGAGTCTGAGATGCACACACTCTCCAGCAGTGTAAAGGCTGACACCTCCAAACC
 CAGCACGGTTAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223677 representing NM_152918
 Red=Cloning site Green=Tags(s)

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MGRVFLVFLAFCVWLTLPGAETQDSRGCARWCPQDSSCVNATACRCNPGFSSFSEIITTPMETCDDINE
CATLSKVSCGKFSDCWNTEGSYDCVCSPGYEPVSGAKTFKNESENTCQDMTFSTWTPPPGVHSQTLRFF
DKVQDLGRDYKPLANNTIQSIQLALDELLEAPGDLETLPRLQQHCVASHLLDGLDVLRLSKNLSNGL
LNF SYPAGTELSLEVQKQVDRSVTLRQNAVMQLDWNQAQKSGDPGPSVVLVSIIPGMGKLLAEAPLVLE
PEKQMLLHETHQGLLQDGPILLSDVISAFLSNNDTQNLSSPVTFTFSHRSVIPRQKVLVCFWEHGQNGC
GHWATTGCSTIGTRDSTICRCTHLSSFAVLMAHYDVQEEDPVLTVITYMGLSVSLLCLLLAALTFLLCK
AIQNTSTSLHLQLSLCLFLAHLFLVAIDQTGHKVLCSIIAGTLHYLYLATLTMWLLLEALYFLTARNLT
VVNYSSINRFMKKLMFPVGYGVPVAVTVAISAASRPHLYGTPSRCWLQPEKGF IWGFLGPVCAIFSVNLVL
FLVTLWILKNRLSSLNSEVSTLRNTRMLAFKATAQLFILGCTWCLGILQVGPAARVMAYLFTIINSLQGV
FIFLVYCLLSQQVREQYGKWSKIRKLTSEMHTLSSSAKADTSKPSTVN
  
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TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_152918

ORF Size: 2043 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_152918.1](#), [NP_690882.1](#)

RefSeq Size: 6345 bp

RefSeq ORF: 2045 bp

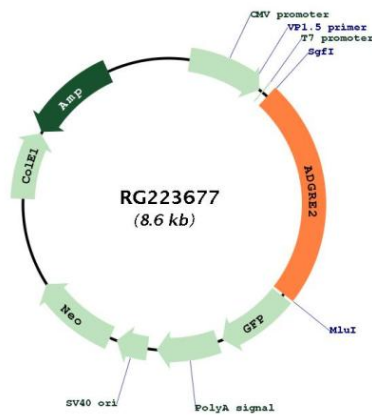
Locus ID: 30817

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 RG223677