

Product datasheet for **RC207158**

GPR114 (ADGRG5) (NM_153837) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR114 (ADGRG5) (NM_153837) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR114
Synonyms:	GPR114; PGR27
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207158 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATCACTGTGGTGCCCTTTTCTGTGCCTGTGCCTTCTGACTTTGCAGAATGCAACAACAGAGACAT
 GGGAAAGAACTCCTGAGCTACATGGAGAATATGCAGGTGTCCAGGGCCGGAGCTCAGTTTTTCTCTCG
 TCAACTCCACCAGCTGGAGCAGATGCTACTGAACACCAGCTTCCCAGGCTACAACCTGACCTTGACAGACA
 CCCACCATCCAGTCTCTGGCCTTCAAGCTGAGCTGTGACTTCTCTGGCCTCTCGTGACCAGTGCCACTC
 TGAAGCGGGTGCCCGAGGAGGAGTGCAGATGCCCGGGGTGAGCAGCCATGCAGTTCCCGCCGAGCT
 GACCCGGGACGCCTGCAAGACCCGCCAGGGAGCTGCGGCTCATCTGTATCTACTTCTCCAACACCCAC
 TTTTTCAAGGATGAAAACAACCTCATCTCTGCTGAATAACTACGCTCTGGGGGCCAGCTGAGTCATGGC
 ACGTGAACAACCTCAGGGATCCTGTGAACATCAGCTTCTGGCACAACAAAGCCTGGAAGGTACACCT
 GACCTGTGTCTTCTGGAAGGAGGAGCCAGGAAACAGCCCTGGGGGGCTGGAGCCCTGAGGGCTGTCGT
 ACAGAGCAGCCCTCCACTCTCAGGTGCTCTGCCGCTGCAACCACCTCACCTACTTTGCTGTTCTCATGC
 AACTCTCCCCAGCCCTGGTCCCTGCAGAGTTGCTGGCACCTTTACGTACATCTCCCTCGTGGGCTGCAG
 CATCTCCATCGTGGCCTCGTGATCACAGTCTGCTGCACTTCCATTTACGGAAGCAGAGTGACTCCTTA
 ACACGCATCCACATGAACCTGCATGCCTCCGTGCTGCTCTGAACATCGCCTTCTGCTGAGCCCCGCAT
 TCGCAATGTCTCCTGTGCCCGGGTGCAGATGCACGGCTCTGGCCGCTGCCTGCACTACGCGCTGCTCAG
 CTGCCTCACCTGGATGGCCATCGAGGGCTTCAACCTCTACCTCCTCCTCGGGCGTGTCTACAACATCTAC
 ATCCGAGATATGTGTTCAAGCTTGGTGTGCTAGGCTGGGGGGCCAGCCCTCCTGGTGTGCTTTCCC
 TCTCTGTCAAGAGCTCGGTATACGGACCCTGCACAATCCCCGTCTTCGACAGCTGGGAGAATGGCACAGG
 CTTCAGAACATGTCCATATGCTGGGTGCGGAGCCCGTGGTGCACAGTGTCTGGTGTGCTGAGGCTACGGC
 GGCTCACGTCCCTTTCAACCTGGTGGTGTGCTGGCCTGGGCGCTGTGGACCCTGCGCAGGCTGCGGGAGC
 GGGCGGATGCACCAAGTGTGAGGCTGCCATGACACTGTCACTGTGCTGGCCTCACCGTGTGCTGGG
 AACCACTGGGCCTTGGCCTTTTCTTTTGGCGTCTTCTGCTGCCCCAGCTGTTCTCTTACCATC
 TAAACTCGTCTACGGTTTCTTCTTTCTGTGTTTCTGCTCCAGCGGTGCCGCTCAGAAGCAGAGG
 CCAAGGCACAGATAGAGGCCCTCAGCTCTCCAAACAACACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207158 protein sequence
 Red=Cloning site Green=Tags(s)

MDHCGALFLCLLLTLQNATTETWEELLSYEMNQVSRGRSSVFSRQLHQLEQMLLNTSFPGYNLTLQT
 PTIQSLAFKLSCDFSGLSLTSATLKRVPQAGGQHARGQHAMQFPAELTRDACKTRPRELRLICIYFSNTH
 FFKDENSSLLNNYVLGAQLSHGHVNNLRDPVNI SFWHNQSLEGYTLTCVFWKEGARKQPWGGWSPEGCR
 TEQPSHSQVLCRCNHLTYFVLMQLSPALVPAELLAPLTYISLVGCSISIVASLITVLLHFHFRKQSDSL
 TRIHMLHASVLLLNIAFLLSPAFAMSPVPGSACTALAAALHYALLSCLTWMAIEGFNLYLLLGRVYNIY
 IRRYVFKLVGLGWGAPALLVLLSLSVKSSVYGPCTIPVFDWENGTGFQNSICWVRSPVHVSVMGYG
 GLTSLFNLVVLAWALWTLRRLRERADAPSVRACHDTVTVLGLTVLLGTTWALAFFSFGVFLLPQLFLFTI
 LNSLYGFFLFLWFCSQRCSRSEAEAKAQIEAFSSSQTTQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6235_h06.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_153837

ORF Size: 1584 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_153837.4](#)

RefSeq Size: 3848 bp

RefSeq ORF: 1587 bp

Locus ID: 221188

UniProt ID: [Q8IZF4](#)

Cytogenetics: 16q21

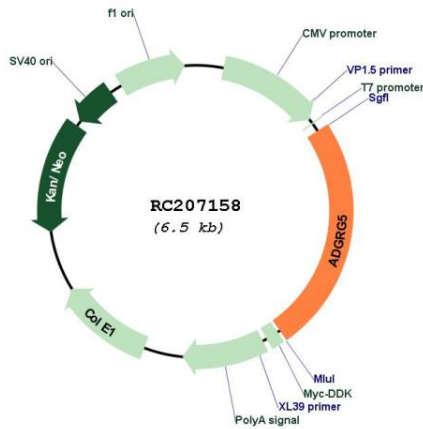
Domains: GPS, 7tm_2

Protein Families: Druggable Genome, GPCR, Transmembrane

MW: 59 kDa

Gene Summary: This gene encodes a member of the adhesion family of G-protein coupled receptors. Members of this family are characterized by long N-termini and multiple functional domains. They may play a role in the immune system as well as in the central nervous system. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RC207158