

Product datasheet for **RC238374**

GPR123 (ADGRA1) (NM_001291085) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR123 (ADGRA1) (NM_001291085) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADGRA1
Synonyms:	GPR123
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RC238374 representing NM_001291085
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGTGGATAGGAGTGACCGCCAGGAACATCTACAAGCAGGTGACCAAGAAGGCCCTCTGTGCCTGG
 ACACAGACCAGCCACCGTACCCAGGCAGCCCCTGCTCAGGTTTTACCTGTCAGCGGAGGGTCCCTT
 TATCATCTGTGGGTACGGCTGCCACGAACATCAGGAATTACGGGACAGAGGACGAGGACACGGCGTAC
 TGCTGGATGGCCTGGGAGCCAGCCTGGGCGCCTTCTACGGCCAGCCGCATCATCACCTGGTCACT
 GTGTGTACTTCTGGGCACCTACGTGCAGCTGCGGCGCCACCCAGGGCGCAGGTACGAGCTGCGCACACA
 GCCCGAGGAGCAGCGCGGCTGGCGACACCCGAGGGCGGCGTGGGATCCGGCCAGGCACCCACCCGCA
 CACGATGCCCGGCGCCTCCGTGCTGCAGAACGAGCACTATTCCAGGCACAGCTGCGCGCCGCGCCT
 TCACGCTGTTCTGTTACGGCCACGTGGGCTTCGGGGCGCTGGCGGTGTACAGGGCCACTTCTGGA
 CATGGTCTTCAGCTGCCTGTACGGCGCCTTCTGCGTGACCTGGGACTTTCGTGCTCATCCACCCTGC
 GCCAAGCGTGAGGACGTGTGGCAGTGTGGTGGGCATGCTGCCCGCCCGCAAGGACGCCACCCCGCAC
 TTGACGCCAACGGGGCCGCGCTGGGCGCGCCGCTGCCTGCACTCGCCGGGACTGGGCCAGCCACGGGG
 CTTGCGCACCCACCGGGCCCTGCAAGATGACCAACCTGCAGGCCGCGCAGGGCCACGCCAGTTGCCTG
 TCACCGGCCACCCCGTGTGCGCAAGATGCACTGCGAGCCACTGACGGCGGACGAGGCGCACGTGCACC
 TGCAGGAGGAGGGCGCCTTCGGGCACGACCCACCTGCACGGGTGCCTTCAGGGCAGAATAAGCCGCC
 CTACTTTAGCCGGCACCCAGCAGAGGAGCCCGAGTACGCTACCCATCCAGCCTGGATGGCAGC
 CCCCAGCTCGCGCACAGACAGCCCCCAGCTCTCTGGATGGCCCGGGGGACACACAGCTGGCCT
 GCTGCACCCAGGGCGACCCCTTCCCATGGTCAACCAGCCGAGGGCAGTGATGGGAGCCCTGCCCTCTA
 CAGCTGCCCCACGCAGCCGGGCAGGAGGCAGCGCTCGGGCCCGCCACTTGGAGATGCTGCGGAGGACA
 CAGTCCCTGCCCTTTGGTGGCCCGAGCCAGAACGGGCTGCCAAGGGTAAATTGCTAGAAGCGCTGCCGT
 TTGGCACCGAGGACCGCAACATCCGAACGGGACCCTGGAAAAACGAACTACTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238374 representing NM_001291085
 Red=Cloning site Green=Tags(s)

MLWIGVTARNIYKQVTKKAPLCLDTPPYPRQPLLRFYLVSGGVPFIICGVTAATNIRNYGTEDEDTAY
 CWMAWEPVSLGAFYGPAAIITLVTCVYFLGTYVQLRRHPGRRYELRTQPEEQRRLATPEGGRGIRPGTPPA
 HDAPGASVLQNEHSFQAQLRAAAFLLFTATWAFGALAVSQGHFLDMVFSCLYGAFVTLGLFVLIHHC
 AKREDVWQCWWACPPRKDAHPALDANGAALGRAACLHSPGLGQPRGFHPPGPKMTNLQAAQGHASCL
 SPATPCCAAMHCEPLTADEAHVHLQEEGAFGHDPHLHGCLQGRTPPYF SRHPAEEPEYAYHIPSSLDGS
 PRSSRTDSPPSSLDGPAGTHTLACCTQGDPPMVTQPEGSDGSPALYSCPTQPGREAALGPGHLEMLRRT
 QSLPFGGSPSQNGLPKGKLLLEGLPFGTDGTGNIRTPWKNETTV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

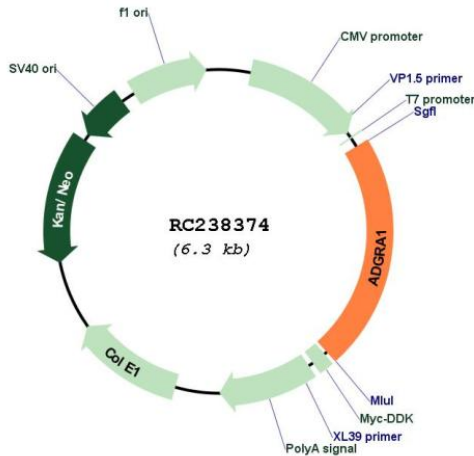
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001291085

ORF Size: 1389 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:	<ol style="list-style-type: none">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:	<u>NM_001291085.1, NP_001278014.1</u>
RefSeq Size:	3700 bp
RefSeq ORF:	1392 bp
Locus ID:	84435
UniProt ID:	<u>Q86SQ6</u>
Cytogenetics:	10q26.3
Protein Families:	Transmembrane
MW:	50.6 kDa
Gene Summary:	<p>This gene encodes a protein that belongs to the adhesion family of G-protein-coupled receptors. Members of this family function in several sensory systems and regulate blood pressure, immune responses, food intake and development. A similar protein in rodents is thought to play a role in in the regulation of neuronal signaling pathways. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Mar 2014]</p>