

Product datasheet for **RG238374**

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:	TurboGFP
Symbol:	GPR123
Synonyms:	GPR123
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238374 representing NM_001291085. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGTGGATAGGAGTGACCGCCAGGAACATCTACAAGCAGGTGACCAAGAAGGCCCTCTGTGCCTG
GACACAGACCAGCCACCGTACCCAGGCAGCCCCTGCTCAGGTTTTACCTCGTCAGCGGAGGGTCCCC
TTTATCATCTGTGGGTACGGTGCCACGAACATCAGGAATTACGGGACAGAGGACGAGGACACGGCG
TACTGCTGGATGGCTGGGAGCCAGCCTGGGCGCCTTCTACGGCCAGCCGCCATCATCACCCTGGTC
ACCTGTGTACTTCTGGGCACCTACGTGCAGCTGCGGGCCACCCAGGGCGCAGGTACGAGCTGCGC
ACACAGCCCGAGGAGCAGCGGGCTGGCGACACCCGAGGGCGGCGTGGGATCCGGCCAGGCACCCCA
CCGCACACGATGCCCCGGCGCCTCCGTGCTGCAAGAAGCAGCACTCATTCCAGGCACAGCTGCGCGCC
GCCGCCTTACGCTGTTCTGTTACGGCCACGTGGGCCTTCGGGGCGCTGGCGGTGTCACAGGGCCAC
TTCTGGACATGGTCTTTCAGCTGCCTGTACGGCGCCTTCTGCGTGACCCTGGGACTCTTCGTGCTCATC
CACCCTGCGCCAAGCGTGAGGACGTGTGGCAGTGTGGTGGGCATGCTGCCCGCCCCGCAAGGACGCC
CACCCGCACTTGACGCCAACGGGGCCGCGCTGGGCCGCGCCGCTGCCTGCACTCGCCGGGACTGGGC
CAGCCACGGGGCTTCGCGCACCCACCGGGCCCCGCAAGATGACCAACCTGCAGGCCGCGCAGGGCCAC
GCCAGTTGCCTGTCACCGGCCACCCCGTGTGCGCCAAGATGCACTGCGAGCCACTGACGGCGGACGAG
GCGCAGTGCACCTGCAGGAGGAGGGCGCCTTCGGGCACGACCCCACTGCACGGGTGCCTTCAGGGC
AGAACTAAGCCGCCTACTTTAGCCGGCACCCAGCAGAGGAGCCCGAGTACGCCTACCACATCCCATCC
AGCCTGGATGGCAGCCCCGAGCTCGCGCACAGACAGCCCCCAGCTCTCTGGATGGCCCGGGGGGG
ACACACACGCTGGCCTGCTGCACCCAGGGCGACCCCTTCCCCATGGTCACCCAGCCGAGGGCAGTGAT
GGGAGCCCTGCCCTCTACAGCTGCCACGCAGCCGGGAGGGAGGAGCGCTCGGGCCCGCCACTTG
GAGATGCTGCGGAGGACACAGTCCCTGCCCTTTGGTGGCCCCAGCCAGAACGGGCTGCCAAAGGGTAAA
TTGCTAGAAGGCCTGCCGTTTGGCACCGGACGGCAACATCCGAACGGGACCCTGGAAAAACGAA
ACTACTGTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG238374
 Blue=ORF Red=Cloning site Green=Tag(s)

MLWIGVTARNIYKQVTKKAPLCLDTPPPYPRQPLLRFYLVSGGVFIIICGVTAATNIRNYGTEDEDTA
 YCWMWEPVSLGAFYGPAAIITLVTCVYFLGTYVQLRRHPGRRYELRTQPEEQRLATPEGGRGIRPGTP
 PAHDAPGASVLQNEHSFQAQLRAAFTLFLFTATWAFGALAVSQGHFLDMVFSCLYGAFVTLGLFVLI
 HHCAKREDVWQWACCPPRKDAHPALDANGAALGRAACLHSPGLGQPRGF AHPPGPKMTNLQAAQGH
 ASCLSPATPCCAKMHCEPLTADEAHVHLQEEGAFGHDPHLHGCLQGRTKPPYFSRHPAEEPEYAYHIPS
 SLDGSPRSSRTDPPSSLDGPAGTHTLACTQGDPPMVTQPEGSDGSPALYSCPTQPGREAALGPGHL
 EMLRRTQSLPFGGPSQNGLPKGKLEGLPFGTDGTGNIRTPWKNETTV
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

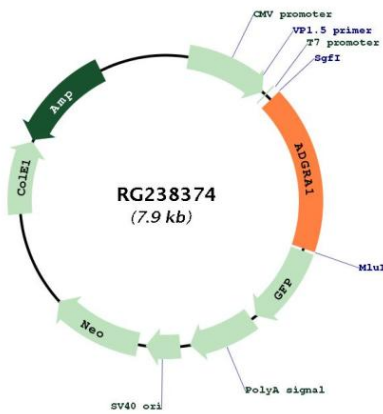
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: [NM_001291085.1](#), [NP_001278014.1](#)

RefSeq Size: 3700 bp
 RefSeq ORF: 1392 bp
 Locus ID: 84435
 UniProt ID: [Q86SQ6](#)
 Cytogenetics: 10q26.3
 Protein Families: Transmembrane
 MW: 50.6 kDa

Gene Summary: 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]

Product images:



Circular map for RG238374