

Product datasheet for **RC224123**

GPR133 (ADGRD1) (NM_198827) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR133 (ADGRD1) (NM_198827) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR133
Synonyms:	GPR133; PGR25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC224123 representing NM_198827
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAAAGCTGCTGCGGCTGTGCTGCTGGTACTCCTGGCTGCTGCTATTTTATTACAACCTTCAGGTGC
 GTGGCGTCTACTCCAGATCGCAGGACCATCCAGGATTTCAAGTGTGGCGTCTGCTTCCCATTACTGGCC
 ACTGGAGAATGTGGATGGGATCCATGAACCTTCAGGATACAACCTGGAGATATTGTGGAAGGGAAGGTCAAC
 AAAGGCATTTACCTGAAAGAGGAAAAGGGAGTCACGCTTCTCTATTACGGCAGGTACAACAGCTCCTGCA
 TCAGCAAGCCAGAGCAGTGTGGCCCTGAAGGGTACGTTTTCTTTTTCTGGAAGACACAAGGAGAACA
 GTCTAGACCAATCCCTTCTGCGTATGGGGACAGGTCACTCCAATGGGTTCAAAGTCTGCTCCAGCGGT
 GGCAGAGGCTCTGTGGAGCTGTACACGGGACAATTCCATGACATGGGAGGCTCCTTCAGCCCCCAG
 GCCCTATTGGACTCATGCTCTATTACATGAAATCCAAGGAGGGCCTGAAAGTCTACGTCACGGGAC
 CCTGAGCACCTCTGATCCGAGTGGAAAAGTGTCTCGTGACTATGGAGAGTCCAACGTCAACCTCGTGATA
 GGGTCTGAGCAGGACCAGGCCAAGTGTATGAGAACGGTCTTTCGATGAGTTTCATCATCTGGGAGCGGG
 CTCTGACTCCGGATGAGATCGCCATGACTTCACTGCTGCCATTGGAAAGCATGCTTTATTGTCTTCAAC
 GCTGCCAAGCCTTTCATGACATCCACAGCAAGCCCCGTGATGCCACAGATGCCTACCATCCCATCATA
 ACCAACCTGACAGAAGAGAGAAAAACCTTCAAAGTCCCGGAGTGATACTGAGTTACCTCCAAAATGTAT
 CCCTCAGCTTACCCAGTAAGTCCCTCTCGGAGCAGACAGCCTTGAATCTCACCAAGACCTTCTTAAAAGC
 CGTGGGAGAGATCCTTCTACTGCCTGGTTGGATTGCTCTGTGACAGGACAGCGCCGTGGTACTGAGTCTC
 ATCGACACTATTGACACCGTCAATGGCCATGTATCCTCCAACCTGCACGGCAGCAGCCCCAGGTACCCG
 TGGAGGGCTCCTCTGCCATGGCAGAGTTTTCCGTGGCCAAAATCTGCCAAGACCGTGAATTCCTCCCA
 TTACCGCTTCCCGGCCACGGGCAGAGCTTCATCCAGATCCCCACGAGGCTTCCACAGGCACGCCTGG
 AGCACCGTCTGGGTCTGCTGTACCACAGCATGCACTACTACCTGAACAACATCTGGCCCCCACACCA
 AGATCGCGGAGGCCATGCATCACAGGACTGCCTGCTGTTCCGCCACCAGCCACCTGATTTCCCTGGAGGT
 GTCCCCACCACCACCCTGTCTCAGAACCTGTCCGGCTCTCCACTATTACGGTCCACCTCAAGCACAGA
 TTGACACGTAAGCAGCACAGTGAGGCCACCAACAGCAGCAACCGAGTCTTCGTGTACTGCGCCTTCTGG
 ACTTCAGCTCCGAGAAGGGTCTGGTGAACACGGCTGTGCGCTCACGAGAGGAAACCTCACCTACTC
 CGTCTGCCGTGCACTCACCTCACCAACTTTGCCATCCTCATGCAGGTGGTCCCCTGGAGCTTGCACGC
 GGACACCAGGTGGCGCTGCTGCTATCAGCTATGTGGGCTGCTCCCTCTCCGTGCTCTGCCTGGTGCCA
 CGCTGGTACCTTCGCCGTGCTGCTCCTCCGTGAGCACCATCCGGAACCAGCGCTACCACATCCACGCCAA
 CCTGTCTTCGCCGTGCTGGTGGCCAGGTCTGCTGCTCATTAGTTTCCGCCTCGAGCCGGGCACGACC
 CCCTGCCAAGTGATGGCCGTGCTCCTACACTACTTCTTCTGAGTGCCTTCGCATGGATGCTGGTGGAGG
 GGCTGCACCTCTACAGCATGGTGATCAAGGTCTTTGGGTCCGAGGACAGCAAGCACCGTTACTACTATGG
 GATGGGATGGGGTTTTCTCTTCTGATCTGCATCATTCACTGTCAATTTGCCATGGACAGTTACGGAACA
 AGCAACAATTGCTGGCTGCTGTTGGCGAGTGGCGCCATCTGGCCTTTGTAGCCCTGCTGTTTGTCA
 TCGTGGTCAACATTGGCCTCCTCATCGCTGTGACCAGAGTCACTCACAGATCAGCGCCGACAACATAAA
 GATCCATGGAGACCCAGTGCCTTCAAGTTGACAGCCAAGGCAGTGGCCGTGCTGCTGCCATCCTGGGT
 ACCTCGTGGGTCTTTGGGTGCTTGTGCTCAACGGTTGTGCTGTGGTTTTCCAGTACATGTTTGCCACGC
 TCAACTCCCTGCAGGACTGTTCAATTCTTTCATTGTCTCCTGAATTGAGAGGTGAGAGCCGCTT
 CAAGCACAAAACCAAGGTCTGGTCGCTCACGAGCAGCTCCGCCGCACCTCCAACCGGAAGCCCTTCCAC
 TCGGACCTCATGAATGGGACCCGGCCAGGCATGGCCTCCACCAAGCTCAGCCCTTGGGACAAGAGCAGCC
 ACTCTGCCACCAGCTGACCTGTGACCGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224123 representing NM_198827
Red=Cloning site Green=Tags(s)

MEKLLRLCCWYSWLLLFYYNFQVRGVYSRSQDHPGFQVLASASHYWPLENVDGIHELQDITGDIVEGKVN
 KGIYLKEEKGVTLLEYGRYNSSCISKPEQCGPEGVTF SFFWKTQGEQSRPISAYGGQVINSNGFKVCSSG
 GRGSVELYTRDNSMTWEASFPPGPYWTHVLF TWKSKEGLKVYVNGTLSTSDPSGKVSRDYGESNVNLVI
 GSEQDQAKCYENGAFDEFI IWERALTPDEIAMYFTA AIGKHALLSSTLPSLFMTSTASPVMPDAYHP
 IITNLTEERKTFQSPGVILSYLQNVSLSLPSKSLSEQTALNLT KTKFLKAVGEILLPGWIALSEDSAVVLSL
 IDTIDTVMGHVSSNLHGSTPQVTVEGSSAMAEFSVAKILPKTVNSSHYRFP AHGQSF IQIPHEAFHRHAW
 STVVGLLYHSMHYLLNNIWPAHTKIAEAMHHQDCLL FATSHLISLEVSPPTLSQNLSGSPLITVHLKHR
 LTRKQHSEATNSSNRVYVYCAFLDFSSGEGVWSNHGCAL TRGNLTYSVCRCTHL TNFAILMQVVPLELAR
 GHQVALSSISYVGCSSLVLCVATLVTF AVLSSVSTIRNQRHYIHANLSFAVLVAQVLLLSFRLEPGTT
 PCQVMAVLLHYFFLSAF AWMLVEGLHLYSMVIKVF GSEDSKHYRYGGMWGFPLLCIISL SFAMDSYGT
 SNNCWL SLASGAIWAFVAPALFVIVVNI GILIAVTRVISQISADNYKIHGDP SAFKLTAKAVAVLLPILG
 TSWVFGVLA VNGCAVVFQYMFATLNSLQGLFIFL FHCLLNSEVRAAFKHKTKVWSLTSSSARTSNAKPFH
 SDLMNGTRPGMASTKLSPWDKSSHAHRVDLSAV

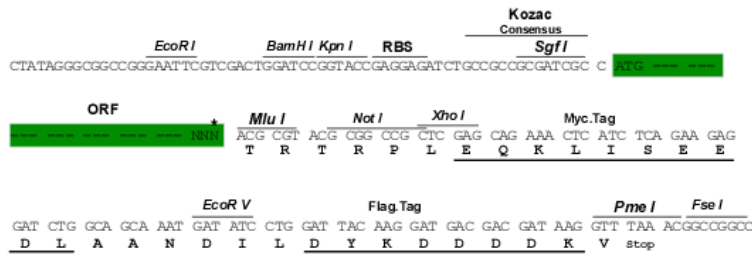
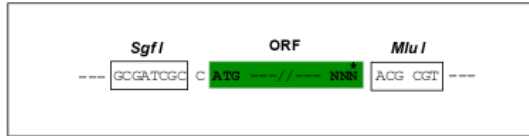
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1690_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

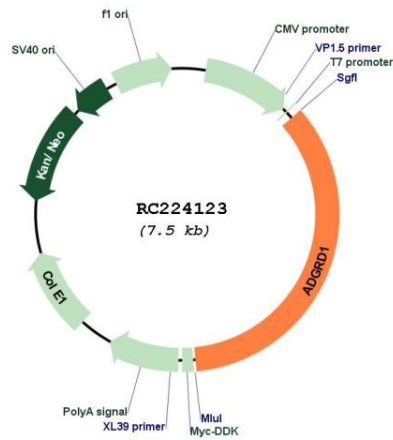
Cloning sites used for ORF Shuttling:



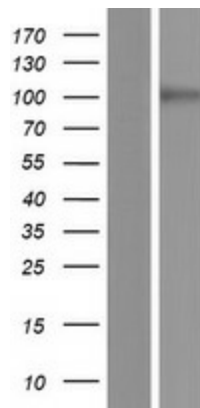
* The last codon before the Stop codon of the ORF

ACCN:	NM_198827
ORF Size:	2622 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_198827.5
RefSeq Size:	2823 bp
RefSeq ORF:	2625 bp
Locus ID:	283383
UniProt ID:	Q6QNK2
Cytogenetics:	12q24.33
Protein Families:	Druggable Genome, Transmembrane
MW:	96.3 kDa
Gene Summary:	The adhesion G-protein-coupled receptors (GPCRs), including GPR133, are membrane-bound proteins with long N termini containing multiple domains. GPCRs, or GPRs, contain 7 transmembrane domains and transduce extracellular signals through heterotrimeric G proteins (summary by Bjarnadottir et al., 2004 [PubMed 15203201]).[supplied by OMIM, Nov 2010]

Product images:



Circular map for RC224123



Western blot validation of overexpression lysate (Cat# [LY403690]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224123 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).