

Product datasheet for RC209678

HCAR1 (NM_032554) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | HCAR1 (NM_032554) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | HCAR1 |
| Synonyms: | FKSG80; GPR81; GPR104; HCA1; LACR1; TA-GPCR; TAGPCR |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC209678 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACAACGGGTCGTGCTGCCGCATCGAGGGGACACCATCTCCAGGTGATGCCGCCGTGCTCATTG
TGGCCTTTGTGCTGGGCGCACTAGGCAATGGGGTCGCCCTGTGTGGTTTCTGCTCCACATGAAGACCTG
GAAGCCCAGCACTGTTTACCTTTCAATTTGGCCGTGGCTGATTCCTCCTTATGATCTGCCTGCCTTT
CGGACAGACTATTACCTCAGACGTAGACACTGGGCTTTTGGGGACATTCCTGCCGAGTGGGGCTCTTCA
CGTTGGCCATGAACAGGGCCGGGAGCATCGTGTTCCTTACGGTGGTGGCTGCGGACAGGTATTTCAAAGT
GGTCCACCCACCACCGGGTGAACACTATCTCCACCCGGGTGGCGGCTGGCATCGTCTGCACCCGTGG
GCCCTGGTCATCCTGGGAACAGTGTATCTTTGCTGGAGAACCATCTCTGCGTGCAAGAGACGGCCGTCT
CCTGTGAGAGCTTCATCATGGAGTCGGCAATGGCTGGCATGACATCATGTTCCAGCTGGAGTCTTTAT
GCCCCCGGCATCATCTTATTTGCTCCTTCAAGATTGTTGGAGCCTGAGGCGGAGGCAGCAGCTGGCC
AGACAGGCTCGGATGAAGAAGGCGACCCGGTTCATCATGGTGGTGGCAATTGTGTTTCATCACATGCTACC
TGCCCAGCGTGTCTGCTAGACTCTATTTCTCTGGACGGTGCCTCGAGTGCCTGCGATCCCTCTGTCCA
TGGGGCCCTGCACATAACCCTCAGCTTACCTACATGAACAGCATGCTGGATCCCTGGTGTATTATTTT
TCAAGCCCCTCCTTTCCAAATTTACAACAAGCTCAAAATCTGCAGTCTGAAACCAAGCAGCCAGGAC
ACTCAAAAACACAAAGGCGGAAGAGATGCCAATTTTCAACCTCGGTCGAGGAGTTGCATCAGTGTGGC
AAATAGTTTCAAAGCCAGTCTGATGGCAATGGGATCCCCACATTGTTGAGTGGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209678 protein sequence
Red=Cloning site Green=Tags(s)

MYNGSCCRIEGDTISQVMPPLLI VAFVLGALGNGVALCGFCFHMKTWKPSTVYLFNLAVADFLLMICLPF
 RTDYLLRRRHWFAGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVVHPHHAVENTISTRVAAGIVCTLW
 ALVILGTVYLLLENHLCVQETAVSCESEFIMESANGWHDIMFQLEFFMPLGIILFCSFKIIVSLRRRQQLA
 RQARMKKATRFIMVVAIVFITCYLPSVSARLYFLWTVPSACDPSVHGALHITLSFTYMNSMLDPLVYYF
 SSPSPFKFYNKLIKICSLKPKQPGHKTQRPEEMPISNLGRRSCISVANSFQSQSDGQWDPHIVEWH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6270_e03.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_032554

ORF Size: 1038 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_032554.4](#)

RefSeq Size: 2977 bp

RefSeq ORF: 1041 bp

Locus ID: 27198

UniProt ID: [Q9BXC0](#)

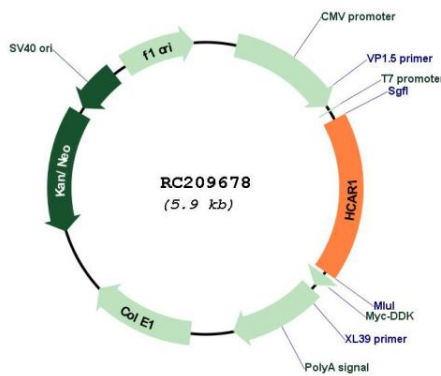
Cytogenetics: 12q24.31

Protein Families: Druggable Genome, GPCR, Transmembrane

MW: 39.3 kDa

Gene Summary: G protein-coupled receptors (GPCRs, or GPRs), such as GPR81, contain 7 transmembrane domains and transduce extracellular signals through heterotrimeric G proteins.[supplied by OMIM, Feb 2005]

Product images:



Circular map for RC209678