

Product datasheet for **RG209678**

HCAR1 (NM_032554) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HCAR1 (NM_032554) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HCAR1
Synonyms:	FKSG80; GPR81; GPR104; HCA1; LACR1; TA-GPCR; TAGPCR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209678 representing NM_032554 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACAACGGTCTGTGCTGCCGCATCGAGGGGACACCATCTCCAGGTGATGCCGCCGCTGCTCATTG
TGGCCTTTGTGCTGGGCGCACTAGGCAATGGGGTCGCCCTGTGTGGTTTCTGCTCCACATGAAGACCTG
GAAGCCCAGCACTGTTTACCTTTCAATTTGGCCGTGGCTGATTCCTCCTTATGATCTGCCTGCCTTTT
CGGACAGACTATTACCTCAGACGTAGACACTGGGCTTTTGGGGACATTCCTGCCGAGTGGGGCTCTTCA
CGTTGGCCATGAACAGGGCCGGGAGCATCGTGTTCCTTACGGTGGTGGCTGCGGACAGGTATTTCAAAGT
GGTCCACCCCCACCACGGGTGAACACTATCTCCACCCGGGTGGCGGCTGGCATCGTCTGCACCCGTGTG
GCCCTGGTCATCCTGGGAACAGTGTATCTTTGCTGGAGAACCATCTCTGCGTGCAAGAGACGGCCGTCT
CCTGTGAGAGCTTCATCATGGAGTCGGCAATGGCTGGCATGACATCATGTTCCAGCTGGAGTCTTTAT
GCCCCCGGCATCATCTTATTTGCTCCTTCAAGATTGTTGGAGCCTGAGGCGGAGGCAGCAGCTGGCC
AGACAGGCTCGGATGAAGAAGGCGACCCGGTTCATCATGGTGGTGGCAATTGTGTTTCATCACATGCTACC
TGCCCAGCGTGTCTGCTAGACTCTATTTCTCTGGACGGTGCCTCGAGTGCCTGCGATCCCTCTGTCCA
TGGGGCCCTGCACATAACCCTCAGCTTCACCTACATGAACAGCATGCTGGATCCCTGGTGTATTATTTT
TCAAGCCCCTCCTTTCCAAATTCTACAACAAGCTCAAAATCTGCAGTCTGAAACCCAAGCAGCCAGGAC
ACTCAAAAACACAAAGGCGGAAGAGATGCCAATTTTCAACCTCGGTCGAGGAGTTGCATCAGTGTGGC
AAATAGTTTCAAAGCCAGTCTGATGGCAATGGGATCCCCACATTGTTGAGTGGCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG209678 representing NM_032554
 Red=Cloning site Green=Tags(s)

MYNGSCCRIEGDTISQVMPLLIVAFVLGALNGVALCGFCFHMKTWKPSTVYLFNLAVADFLLMICLPF
 RTDYLLRRRHWFAGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVVHPHHAVENTISTRVAAGIVCTLW
 ALVILGTVYLLLENHLCVQETAVSCESEFIMESANGWHDIMFQLEFFMPLGIILFCSFKIIVSLRRRQQLA
 RQARMKKATRFIMVVAIVFITCYLPSVSARLYFLWTVPSSACDPSVHGALHITLSFTYMNSMLDPLVYVYF
 SSPSPFKFYNKLIKICSLKPKQPGHKTQRPEEMPISNLGRRSCISVANSFQSQSDGQWDPHIVEWH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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: 3612 bp

RefSeq ORF: 1041 bp

Locus ID: 27198

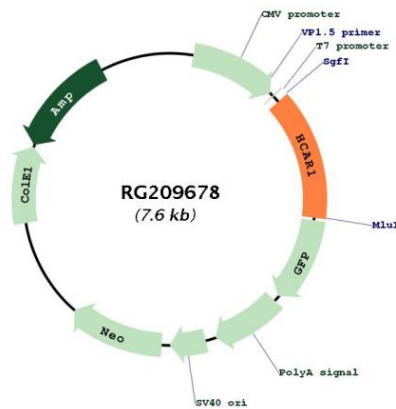
UniProt ID: [Q9BXC0](#)

Cytogenetics: 12q24.31

Protein Families: Druggable Genome, GPCR, Transmembrane

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 RG209678