

Product datasheet for **RG210435**

CCKAR (NM_000730) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCKAR (NM_000730) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CCKAR
Synonyms:	CCK-A; CCK1-R; CCK1R; CCKRA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210435 representing NM_000730 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGTGGTTGACAGCCTTCTTGTAATGGAAGCAACATCACTCCTCCCTGTGAACTCGGGCTCGAAA
ATGAGACGCTTTTCTGCTTGGATCAGCCCCGTCCTTCAAAGAGTGGCAGCCAGCGGTGCAGATTCTCTT
GTACTCCTTGATATTCTGCTCAGCGTGTGGGAAACACGCTGGTCATCACCGTGTGATTCGGAACAAG
CGGATGCGGACGGTCACCAACATCTTCTCCTCTCCCTGGCTGTCAGCGACCTCATGCTGTCTCTTCT
GCATGCCGTTCAACCTCATCCCCAATCTGCTCAAGGATTCATCTTCGGGAGCGCCGTTTGAAGACCAC
CACCTACTTCATGGGCACCTCTGTGAGTGTATCTACCTTTAATCTGGTAGCCATATCTCTAGAGAGATAT
GGTGCGATTTGCAAACCTTACAGTCCCGGGTCTGGCAGACAAAAATCCCATGCTTTGAAGGTGATTGCTG
CTACCTGGTGCCTTTCTTTACCATCATGACTCCGTACCCATTATAGCAAATGGTGCCTTTTACCAA
AAATAACAACCAGACCGGAATATGTGCCGCTTCTACTGCCAAATGATGTTATGCAGCAGTCTGGCAC
ACATTCCTGTTACTCATCCTCTTTCTTATTCTGGAATTTGTGATGATGGTGGCATATGGATTAATCTCTT
TGGAACTCTACCAGGGAATAAAATTTGAGGCTAGCCAGAAGAAGTCTGCTAAAGAAAGGAAACCTAGCAC
CACCAGCAGCGGCAAATATGAGGACAGCGATGGGTGTTACCTGCAAAGACCAGGCCCGGAGGAAGCTG
GAGCTCCGGCAGCTGTCCACCGCAGCAGCAGCAGGGCCAACCGCATCCGGAGTAACAGCTCCGAGCCA
ACCTGATGGCCAAGAAAAGGGTATCCGCATGCTCATCGTCATCGTGGTCTTCTTCTTCTGTGCTGGAT
GCCCATCTTCAGCGCAAACGCTGGCGGGCTACGACACCGCTCCGAGAGCGCCGCTCTCAGGAACC
CCCATTTCCTTATCCTCCTCTGTCTACACCTCCTCCTGCGTCAACCCATCATCTACTGCTTATGTA
ACAAACGCTTCCGCTCGGCTTATGGCCACCTTCCCCTGCTGCCCAATCCTGGTCCCCAGGGGCGAG
GGGAGAGGTGGGGAGGAGGAGGAAGGCGGGACCACAGGAGCCTCTGTCCAGTTCTCGTACAGCCAT
ATGAGTGCCTCGGTGCCACCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210435 representing NM_000730
 Red=Cloning site Green=Tags(s)

MDVVDSLLVNGSNITPPCELGLENETLFCLDQPRPSKEWQPAVQILLYSLIFLLSVLGNTLVITVLIRNK
 RMRTVTNIFLLSLAVSDLMLCLFCMPFNLI PNLLKDFIFGSAVCKTTTYFMGTSVSVSTFNLVAISLERY
 GAICKPLQSRVWQTKSHALKVIAATWCLSFTIMTPYPIYSNLVPFTKNNQ TANMCRFLLPNDVMQQSWH
 TFLLLILFLIPGI VMMVAYGLISLELYQGIFKFEASQKSAKERKPTSSGKYEDSDGCYLQKTRPPRKL
 ELRQLSTGSSSRANRIRSNSSAANLMAKKRVIRMLIVIVLFFLCWPIFSANAWRAYDTASAERRLSGT
 PISFILLLSYTS SCVNP I IYCFMNRKFR LGMATFPCCPNP GPPGARGEV GEEEEGGTTGASLSRFSYSH
 MSASVPPQ

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_000730

ORF Size: 1284 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_000730.3](#)

RefSeq Size: 1682 bp

RefSeq ORF: 1287 bp

Locus ID: 886

UniProt ID: [P32238](#)

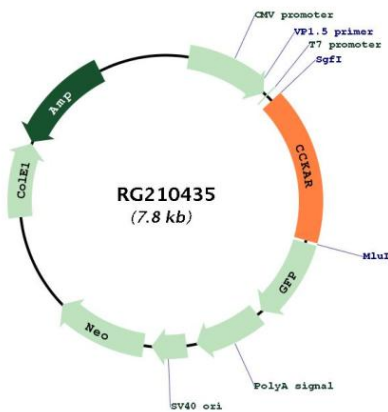
Cytogenetics: 4p15.2

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Calcium signaling pathway, Neuroactive ligand-receptor interaction

Gene Summary: This gene encodes a G-protein coupled receptor that binds non-sulfated members of the cholecystikinin (CCK) family of peptide hormones. This receptor is a major physiologic mediator of pancreatic enzyme secretion and smooth muscle contraction of the gallbladder and stomach. In the central and peripheral nervous system this receptor regulates satiety and the release of beta-endorphin and dopamine. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210435