

## Product datasheet for **MR222564**

### **Cckbr (NM\_007627) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cckbr (NM_007627) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cckbr
Synonyms:	CCK-BR; CCK2; CCK2-R; CCK2R; CCKR-; CCKR-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR222564 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATCTGCTCAAGCTGAACCGCAGCTTGCAGGGACCAGGACCCGGGTCAAGGTCTTCTTTGTGCCGCC  
 CGGGTGTCTCCCTCAACAGCAGTAGCGCCGCAACCTCAGCTGCGAGACCCCTCGTATCCGCGGAAC  
 CGGGACCAGAGAATTGGAGTTGACCATTGAATCACCCCTTATGCGGTGATCTTTCTGATGAGTGTGGC  
 GGAAACGTGCTCATATTGTGGTCTGGGACTGAGCCGACGCCTAAGAACGGTCACCAACGCCTTCTAC  
 TCTCCCTGGCAGTCAGCGACCTCTGCTGGCTGTCGCTTGCATGCCCTTCACTCTGCCAACCTCAT  
 GGGCACATTATCTTGGCACAGTCATCTGCAAGGCCGTTTCTACCTCATGGGGTATCAGTGAGTGTG  
 TCCACTTAAATCTCGCGCCATCGCCCTGGAGCGATACAGCGCCATCTGCCGACACTGCAAGCACGAG  
 TGTGGCAGACACGCTCCACGCAGCTCGGGTATCTTAGCCACGTGGCTGCTGTCTGGATTGCTTATGGT  
 CCCCTACCTGTGTACACCGTGGTGCAGCCAGTGGGGCTCGAATACTGCAGTGCATGCATCTCTGCCCC  
 AGTGAACGTGTCCAACAATGTGGTCCGTGCTTCTGCTAATACTGCTGTTCTTATCCCGGGCGTGGTTA  
 TGGCAGTGGCCTATGGACTCATCTCCCGGAACTCTACCTAGGGCTCCGCTTTGATGGTGATAATGACAG  
 CGAGACCCAAAGCCGGTCCGAAACCAAGGGGGTCTGCCGGTGGGGCAGCACAGGGCCTGTCCAACAG  
 AACGGGGTGGCCGATGTGACCAGCCTGACTGGGGAAGACAGTGTGGCTGCTACGTGCAACTCCAC  
 GTTCCCGACTGGAGATGACAACGCTGACCACGCCCACTACTGGCCAGGCCCTGGCCCTCGGCCAACCA  
 GGCAAGCTGCTGGCTAAGAAGCGGGTGGTGGCAATGCTGCTGGTATTGTTTTGCTTTTTTCTGTGTG  
 TGGCTGCCAGTGTACAGCGCCAACAGTGGCGTGCCTTCGATGGCCAGGCGCGCCGAGCACTCGCAG  
 GGGCCCCATCTCTTTCATCCACTTGTGAGCTACACCTCTGCTTGTGCCAACCCCTGGTCTACTTT  
 CATGCACCGCCGCTTCCGCCAGGCTGCCTGGACACATGTGCCCGCTGTTGCCACGCCCTCCACGAGCT  
 CGCCACGGCCTCTCCGGATGAGGATCTCTACCCCTCCATCGCTTCTGTCCAGGCTAAGCTATA  
 CCACCATCAGCACGCTGGGGCTGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR222564 protein sequence  
 Red=Cloning site Green=Tags(s)

MDLLKLNRSLLQPGPGSGSSLCRPGVSLNSSSAGNLSCEPRIRGTGTRELELTIRITLYAVIFLMSVG  
 GNVLIIVVLGLSRRLRTVTNAFLLSLAVSDLLAVACMPFTLLPNLMGTFIFGTVICKAVSYLMGVSYSV  
 STLNLAAIALERYSAICRPLQARVWQTRSHAARVILATWLLSGLLMVYPYVYTVVQPVGPRILQCMHLWP  
 SERVQMMWSVLLILLFFIPGVMAVAYGLISRELYLGLRFDGDNSETQSRVRNQGLPGGAAPGPVQQ  
 NNGCRHVTSLTGEDSDGCYVQLPRSRLEMTTLTPTTGPGPGRPNQAKLLAKKRVRMLLVIVLLFFVC  
 WLPVYSANTWRAFDGPGARRALAGAPISFIHLLSYTSACANPLVYCFMHRFRQACLDTCARCCPRPPRA  
 RPRPLPEDEPPTPSIASLSRLSYTTISTLGGP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**ACCN:** NM\_007627

**ORF Size:** 1359 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

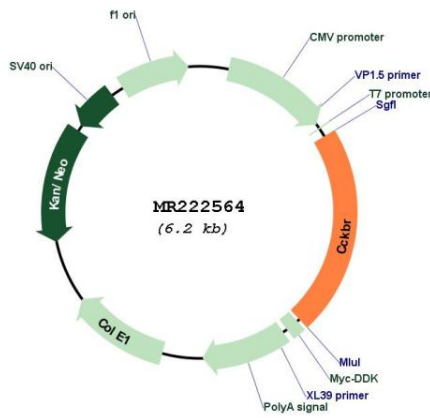
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_007627.1](#), [NM\\_007627.2](#), [NM\\_007627.3](#), [NM\\_007627.4](#), [NM\\_007627.5](#), [NP\\_031653.1](#)  
**RefSeq Size:** 2483 bp  
**RefSeq ORF:** 1362 bp  
**Locus ID:** 12426  
**UniProt ID:** [P56481](#)  
**Cytogenetics:** 7 55.86 cM  
**MW:** 49.1 kDa

**Gene Summary:** This gene encodes a multipass transmembrane receptor protein expressed in the central nervous system and gastrointestinal tract. Cholecystinin and gastrin bind to the encoded protein to stimulate gastric acid secretion and mucosal growth in the gastrointestinal tract, and anxiety, pain sensation and memory in the brain. Mice lacking the encoded protein exhibit an increase in the basal gastric pH and gastrin levels in the bloodstream as well as mild hypocalcemia, secondary hyperparathyroidism and increased bone resorption. [provided by RefSeq, Apr 2015]

### Product images:



Circular map for MR222564