

Product datasheet for **MG205944**

Prokr2 (NM_144944) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Prokr2 (NM_144944) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Prokr2 |
| Synonyms: | B830005M06Rik; EG-VEGRF2; Gpcr73l1; Gpr73l1; PKR2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG205944 representing NM_144944 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGACCCAGAACAGAAACACTAGCTTTGCACCAGACTTGAATCCACCCCAAGACCATGTCTCCTTAA
ACTACAGTTATGGTGATTATGACCTCCCCTGGGTGAGGATGAGGATGTGACCAAGACACAGACCTTCTT
TGCAGCCAAAATTGTCATTGGCGTGGCACTGGCAGGCATCATGCTGGTCTGCGGCATTGGCACTTTGTC
TTCATTGCTGCCCTCGCCGCTACAAGAAGCTGCGCAACCTTACCAACCTCCTCATTGCTAACCTGGCCA
TCTCTGACTTCTGGTGGCGATCGTCTGCTGCCCTTTGAGATGGACTATTATGTAGTACGGCAGCTTTC
CTGGGCGCATGGTCACGTGCTTTGTGCCTCCGTCAACTACCTTCGTACGGTCTCCCTGTACGTCTCCACC
AACGCTCTGCTGGCCATCGCTATTGACAGATACCTCGCTATTGTCCACCCCTTTGAAACCACGGATGAATT
ATCAGACCCTTCTTCTGATCGCTTTGGTCTGGATGGTCTCCATCCTCATCGCTGTCCCATCTGCCTA
CTTCACCACAGAAACCATCCTCGTTATCGTCAAGAATCAAGAAAAATCTTCTGTGGTCAGATCTGGTGC
GTGGACCAGCAGCTCTACTACAAATCCTACTTCTTCTCGTCTTCGGGCTTGAGTTCTGGTGGTCCCGTGG
TCACTATGACCTGTGCTATGCCAGGATCCCCAAGAGCTCTGGTTCAAGGCTGTACCTGGCTTCCAGAC
GGAGCAAATCCGCAAGCGGCTGCGTTGCCGCCAAGACAGTGTACTGCTCATGGGCATCCTCACAGCC
TACGTGCTGTGCTGGGCGCGTTCTATGGCTTTACCATAGTGGAGACTTCTTCCCACGGTAGTTGTGA
AGGAGAAGCACTACCTCACCGCCTTCTACGTCTGGAGTGCATTGCCATGAGCAACAGCATGATCAATAC
TATATGCTTCGTGACGGTCAAGAACAACACCATGAAATACTTCAAGAAGATGCTGCGGCTCCACTGGCGG
CCCTCTACTACGGGAGTAAGTCCAGCGCTGACCTCGACCTCAAACCAGCGGGGTGCCTGCCACTGAAG
AGGTGGATTGTATCAGACTAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205944 representing NM_144944
 Red=Cloning site Green=Tags(s)

MGPQNRNTSFAPDLNPPQDHVSLNYSYGDYDLPLGEDEDVTKTQTFFAAKIVIGVALAGIMLVCGIGNFV
 FIAALARYKKLRNLNLLIANLAISDFLVAIVCCPFEMDYVVVRQLSWAHGHVLCASVNYLRTVSLYVST
 NALLAIAIDRYLAIVHPLKPRMNYQTASFLIALVWVSILIAVPSAYFTTETILVIVKNQEKIFCGQIWS
 VDQQLYKSYFLFVFGLEFVGPVVTMTLCYARIPQELWFKAVPGFQTEQIRKRLRCRRKTVLLLMGILTA
 YVLCWAPFYGFTTIVRDFPPTVVVKEKHYLTAFYVVECIAMNSMINTICFVTVKNNTMKYFKKMLRLHWR
 PSHYGSKSSADLDLKTSGVPATEEVDCIRLK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144944

ORF Size: 1143 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_144944.2](#), [NP_659193.2](#)

RefSeq Size: 3655 bp

RefSeq ORF: 1146 bp

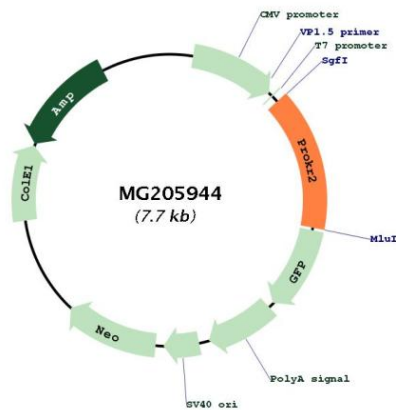
Locus ID: 246313

UniProt ID: [Q8K458](#)

Cytogenetics: 2 F2

Gene Summary: Receptor for prokineticin 2. Exclusively coupled to the G(q) subclass of heteromeric G proteins. Activation leads to mobilization of calcium, stimulation of phosphoinositide turnover and activation of p44/p42 mitogen-activated protein kinase (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205944