

Product datasheet for MR215846

Gpr45 (NM_053107) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpr45 (NM_053107) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpr45
Synonyms:	9230112G11Rik; AW046772
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR215846 representing NM_053107 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTGTAACAGCACACCCATGGGGACTTACGAACATCTGCTGCTGAATGTGAGCAACACTTTGGACC
CTGGGGACACCCCACTGTCTGCACCGCTCAGGATCTCGCTGGCAATAATGATGCTGCTGATGATCGTGGT
AGGATTCCTTGGCAACACGGTGGTCTGCATCATCGTGTACCAGAGGCCAGCCATGCGTTCAGCTATCAAC
CTGCTGCTGGCCACCTTGGCCTTCTCCGACATCATGCTGTCTTTATGCTGCATGCCATTCACGGCCATCA
CCCTCATCACTGTTTCGCTGGCATTTCGGGGACCACTTTTGTGGCTTTCAGCTACTCTCTATTGGTTTTT
TGTCTAGAGGGCGTGGCCATCCTGCTCATCATTAGCGTGGACCGGTTTCTCATCATCGTGCAGCGTCAG
GACAAGCTGAACCCACGCAGGGTAAGATGATCATCGCGCCCTCCTGGGTGCTGTCTTTCTGCATCTCTG
CGCCCTCCTTCACTGGCTGGACGTTTCATGGAGGTGCCTGCTCGAGCCCCACAGTGCCTGCTAGGCTACAC
TGAGTTCACAGCTGAACGCGCCTATGTAGTGACACTGGTGGTGGCAGTGTCTTTGCTCCCTTCGGCGTC
ATGTTGTGCTCCTATCTGTGCATCCTCAATACGGTGCAGGAAGACGCTGTCCGTGTGCACAACAGTCGG
ACAGCCTGGACCTCAGACAGCTGACCGGAGCTGGCCTGAGACGTCTCAGACGGCAGCAGCAGCAGGCCAG
CCTGGACCTGAGTTTCAAACCAAGGCCTTCAACCATCCTCATCTCTCGTGGGCTTTTCACTCTGC
TGGCTGCCACACTCAGTCTACAGCCTGCTGTCTGCGTTACGCCGGGTTCTATTACAGCGCCTCCTTCT
ACACCACAGCATGCGTCTGTGGCTCAGTTACCTCAAGTCTGTTTTCAACCCATCGTCTACTGCTG
GAGGATCAAGAAATTCGCGAGGCTGCATAGAGTTGCTTCCCCACACTTCCAAATCCTCCCTAAAGTG
CCTGAGCGGATCCAGAGGAAATCCAGCCAAGCACCATCTATGTGTGCAACGAAAACCAATCCGCTGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR215846 representing NM_053107
Red=Cloning site Green=Tags(s)

MACNSTPMGTYEHLLLNVSNTLDPGDTPLSAPLRISLAIMLLMIIVVGFNGNTVVCIIIVYQRPAMRSAIN
 LLLATLAFSDIMLSLCCMPFTAITLITVRWHFGDHFRCRLSATLYWFFVLEGVAILLIISVDRFLIIVQRQ
 DKLNPRRAKMIIAASWVLSFCISAPSFTGWTFMEVPARAPQCVLGYTEFPAERAYVVTLLVAVFFAPFGV
 MLC SYLCILNTVRKNAVRVHNQSDSLDLRQLTGAGLRRLRRQQQASLDLSFKTKAFTTILILFVGFSLC
 WLPHSVYLLSAFSRRFYYSASFYTTSTCYLWLSYLKSVFNPIVYCWRIKKFREACIELLPHTFQILPKV
 PERIQRKIQPSTIYVCNENQSAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9019_c02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_053107

ORF Size: 1119 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_053107.4](#), [NP_444337.3](#)

RefSeq Size: 3860 bp

RefSeq ORF: 1122 bp

Locus ID: 93690

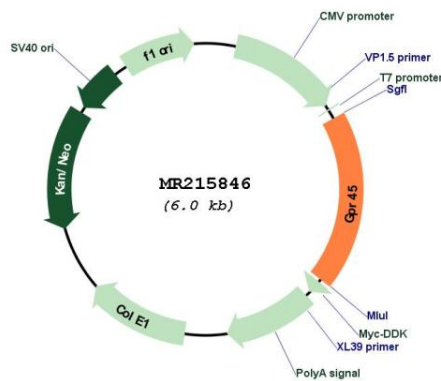
UniProt ID: [Q9EQQ4](#)

Cytogenetics: 1 B

MW: 42.8 kDa

Gene Summary: Orphan receptor. May play a role in brain function.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR215846