

Product datasheet for **MR208272**

Gpr176 (NM_201367) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpr176 (NM_201367) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpr176
Synonyms:	Gm1012
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208272 representing NM_201367
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCACAACAGCAGCTGGGTGTACCGAACACCAGCCACCCGCGCAACAGTCGGGGCGCCGAGGCTG
 GCGCCAACCTCAGCGCGTTCGGGGAGCTGAGCGAGGCTCAGCTGTACCGCAATTCACCACCACCGTGCA
 GGTCTGTCATCTTATTGGCTCGCTACTGGAACTTCATGGTGTATGGTCAACTTGCCGCAACAGTG
 TTCAAATCTGTACCAACAGTTTCAAAAAACCTGGCCTGCTCCGGGATTTGTGCCAGTGGTCTGTG
 TGCCCTTCGACATCATCCTGAGCAGCAGCCCTCACTGTTGCTGGTGGATCTATACGATGCTCTTCTGCAA
 GGTGCTCAAATTCCTACACAAGGTGTTCTGCTCTGTGACTGTCTCAGTTTTCTGCTATTGCCCTGGAC
 AGGTACTATTAGTCCTTATCCTCTGGAGAGAAAAATATCTGATGCCAAGTCTCGGGAGCTAGTGTATG
 ACATCTGGGCTCATGCAGTGGTGGCCAGTGTCCCTGTGTTGCTGTGACCAATGTCGCTGACATCTATGC
 TATGTCCACCTGCACGGAAGTCTGGAGCAACTCCTTGGGCCACCTGGTGTATGTTCTGATCTACAATGTC
 ACCACAGTCATTGTGCCGTGGCTGTGGTATTTCTCTTTCTCATCTGATCCGGAGGGCCCTGAGTGCCA
 GCCAGAAGAAGAAAGTCATAATTGCTGCACTGAGGACCCACAGAACACCATCTCTATCCCTATGCTTC
 CCAGCGAGAGGCAGAGCTACATGCCACCCTGCTCTCCATGGTGACAGTTTTTATTCTCTGCAAGTACCC
 TATGCCACCCTGGTTGTCTACCAGACTGTGCTCAATGTACCTAACACCTCTGCTCTTCTGCTTCTCACGG
 CCATTTGGCTGCCAAAGTCTCTCTGTTGGCAACCCTGTGCTCTTCTTAACTGTGAACAAATCGGTACG
 CAAGTGTCTGGTGGGACCCTGGTGCAGTTGCACCACCGGTACAGTCGCCGCAATGTGGTGTAGTACAGGG
 AGTGGGGTGGCTGAGCCAGCCTTGAGCCAGCATGCGCTCTGGTAGCCAGCTCTGGAGATGTTCCACA
 TTGGGCAGCAACAGATCTTTAAGCCCTCGGAGGATGAGGAAGAAAGTGAAGCAAGTATCTCGGCTCAGC
 CGATTTCCAGGCAAGGAGGTGCTCACTTCTGCCCAGAGGGCGAGCAGGAGCCACCACAGCTTGCACCG
 TCTGTGCCACCTCCAGGCACAGTGGACTCTGAACCTCGGGTGTCCCCAGTAGCTCCCATGGAATCTGGGA
 TATTTCTGATAAGTATCCCTGCAGTTTGGCTTTGGCCTTTTGTAGTTACCCCTCAGTGGCTCTCTGA
 GACCCGAAATAGCAAGAAGAGGCTGCTTCCCCACTGGGCAATACCCAGAGAGCTGATCCAGACAAAAG
 GTGCCAGAGTGAACAGGGTGAACGGAAGATGAGCAGAAACAATAAAGTGAATTTTTCCAAGGTAG
 ACTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208272 representing NM_201367
 Red=Cloning site Green=Tags(s)

MGHNSSWVSPNTSHPNTSGAEAGANLSAFGELSEAQLYRQFTTTVQVVFIFIGSLLGNFMVLWSTCRRTV
 FKSVTNRFIKNLACSGICASVVCVPFDIILSSSPHCCWIIYTMLFCKVLKFLHKVFCVSVTVLSFPAIALD
 RYYSVLYPLERKISDAKSRELVMYIWAHAVVASVPVFAVTNVADIYAMSTCEVWSNSLGHLYVYLIYNV
 TTVIVPVAVVFLFLILIRRALSASQKKKVIIAALRTPQNTISIPYASQREAEHATLLSMVTVFILCSVP
 YATLVVYQTVLNVNPTS VFLLLTAIWLPKVSLLANPVLFLTVNKSVRKCLVGLTVQLHHRYSRRNVVSTG
 SGVAEPSLEPSMRSGSQLLEMFHIGQQQIFKPSEDEESEAKYLGSAADFQAKEVL TSCPEGEQEPQLAP
 SVPPPVTVDSEPRVSPVAPMESGIFPDKYSLQFGFPELPPQWLSETRNSKKRLLPPLGNTPEELIQTK
 VPRVNRVERKMSRNKVSIFPKVDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_201367

ORF Size: 1545 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_201367.3](#)

RefSeq Size: 3791 bp

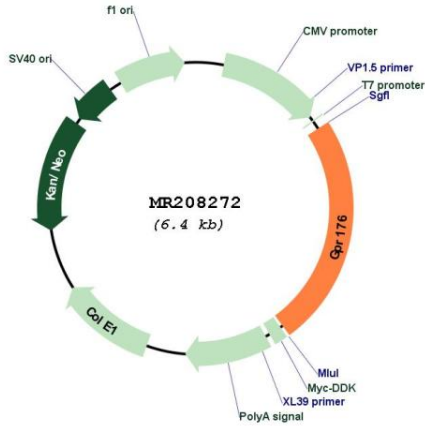
RefSeq ORF: 1548 bp

Locus ID: 381413

UniProt ID: [Q80WT4](#)

Cytogenetics: 2 E5
MW: 57.6 kDa
Gene Summary: Orphan receptor involved in normal circadian rhythm behavior (PubMed:26882873). Acts through the G-protein subclass G(z)-alpha and has an agonist-independent basal activity to repress cAMP production (PubMed:26882873).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208272