

## Product datasheet for **RR216820**

### Gpr176 (NM\_001270986) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gpr176 (NM_001270986) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpr176
Synonyms:	Gm1012; Gpr; RBU-15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR216820 representing NM\_001270986  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGCACAAACGGCAGCTGGGTGTACCGAACACCAGCCACCCGCGTAACACGTGGGGCGCCAGGCTG  
 GCGCCAACAGCAGCGCGTTCGGGGAGCTGAGCGAGGCGCAGCTGTACCGCAATTCACCACCACCGTGCA  
 GGTCTGTCATCTTATTGGTTCGCTGCTCGGAACTTCACGGTGTATGGTCAACCTGCCGACGACCGGTG  
 TTCAAATCTGTACCAACAGGTTCAATAAAACCTGGCCTGCTCCGGATTTGTGCCAGCGTGGTCTGCG  
 TGCCCTTCGACATCATCCTGAGCACCAGCCCTCACTGCTGCTGGTGGATCTACACGATGCTCTTCTGCAA  
 GGTGCTTAAATTCCTACACAAGGTGTTCTGCTCGGTGACTGTCTCAGCTTCTGCCATTGCCCTGGAC  
 AGGTAATTCAGTCTCTACCCTCTGGAGAGAAAATCTCTGACCCAAGTCTCGGAACTAGTGATGT  
 ACATCTGGGCCCATGCAGTGGTGGCCAGCGTCCCTGTGTTGCTGTGACCAATGTAGCTGACATCTATGC  
 TACATCCACCTGCACGGAAGTCTGGAGCAACTCCTTGGGCCACCTGGTGTATGCTCCTGATCTACAACGTC  
 ACCACGGTCATTGTGCCCTGTGGCTGTGGTATTCCTCTTTCTTATCCTGATCCGGAGGGCCCTGAGTGCCA  
 GTCAGAAGAAGAAAGTCATCATCGCTGACTGAGGACCCACAGAACACCATCTCTATCCCTATGCATC  
 CCAGCGGGAGGCAGAGCTACATGCCACCCTGCTCTCCATGGTGACAGTTTTTCATCCTCTGCAGCGTACCC  
 TATGCCACCCTGGTTGTCTACCAGACTGTGCTCAATGTACCTAACACTTCTGTGTTCTTGCTTCTCACTG  
 CTATTTGGCTGCCAAAGTCTCACTGTTGGCAACCCTGTGCTCTTCTAACTGTGAACAGATCAGTACG  
 CAAATGCTTGGTGGGACCCTGGTGCAGTTGCACCACCGGTACAGTCGCCGCAATGTGGTTAGTACAGGG  
 AGTGGGTGGTTGAGCCTAGCCTTGAGCCAGCATGCGCTCTGGTAGCCAGCTCTTGAGATGTTCCACA  
 TTGGACGCAACAGATCTTTAAGCCCTCGGAGGATGAGGAAGAGAGTGAAGCAAGTATCTTGGCTCAAC  
 TGATTTCCAGGCCAAGGAGGTACTCACCTCCTCCAGAGGGCGAGGAGTACAGCTTGACCCCTCTGTG  
 CCGCTCCAGGCACAGTACTGATCTCGGTGTCCAGTACGCCCCGTGGAACCTGGCATATTCC  
 CTGATAAGTATCCCTGCAGTTTGGCTTTGGCCTTTGAGTTGCCCCCTCAGTGGCTCTCTGAGACTCG  
 AAATAGCAAGAAGAGGCTGCTTCCCCACTGGCAATACCCAGAAAGAGCTGATCCAGACAAAGGTGCC  
 AGAGTGAGCAGGGTGGAGCGGAAGATGAGCAGAAACAATAAAGTGAGCATTTTCCAAAGGTAGACTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216820 representing NM\_001270986  
 Red=Cloning site Green=Tags(s)

MGHNGSWVSPNTSHPRNTSGAQAGANSSAFGELSEAQLYRQFTTTVQVVFIFIGSLLGNFTVLWSTCRITV  
 FKSVTNRFIKNLACSGICASVVCVPFDIILSTSPHCWIIYTMLFCKVLKFLHKVFCVTVLSFPAIALD  
 RYYSVLYPLERKISDAKSRELVMYIWAHAVVASVPVFAVTNVADIYATSTCTEVWSNSLGHLYVVIYNV  
 TTVIVPVAVVFLFLILIRRALSASQKKKVIIAALRTPQNTISIPYASQREELHATLLSMVTVFILCSVP  
 YATLVVYQTVLNVNPTSFLLLLTAIWLPKVSLLANPVLFLTVNRSVRKCLVGTLVQLHHRYSRRNVVSTG  
 SGVVEPSLEPSMRSGSQLLEMFHIGQQQIFKPESEDEESEAKYLGSTDFQAKEVL TSSPEGEESQLAPSV  
 PPPGTVDSVSRVSPVAPVEPGIFPKYSLQFGFGPFELPPQWLSETRNSKKRLLPPLGNTPEELIQTKVP  
 RVSRVERKMSRNNKVSIFPKVDS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001270986

**ORF Size:** 1539 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\\_001270986.1](#), [NP\\_001257915.1](#)

**RefSeq Size:** 3824 bp

**RefSeq ORF:** 1542 bp

**Locus ID:** 117257

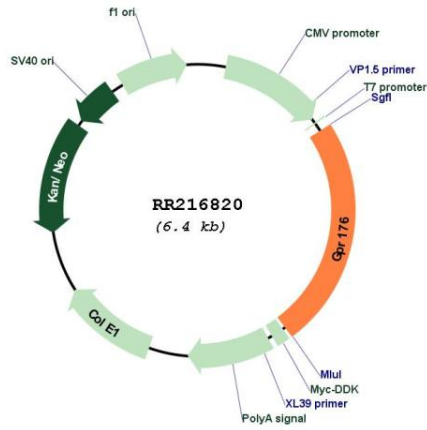
**UniProt ID:** [Q64017](#)

**Cytogenetics:** 3q35

**MW:** 56.8 kDa

**Gene Summary:** orphan G protein coupled receptor found in brain and spleen [RGD, Feb 2006]

**Product images:**



Circular map for RR216820