

## Product datasheet for **RG211026**

### MC4 Receptor (MC4R) (NM\_005912) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MC4 Receptor (MC4R) (NM_005912) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MC4 Receptor
Synonyms:	BMIQ20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211026 representing NM_005912 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGAAGTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGCAGCAGTTACAGACTGC  
ACAGCAATGCCAGTGAGTCCCTTGAAAAGGCTACTCTGATGGAGGGTGCTACGAGCAACTTTTTGTCTC  
TCCTGAGGTGTTTGACTCTGGGTGTCATCAGCTTGTGGAGAATATCTTAGTGATTGTGGCAATAGCC  
AAGAACAAGAATCTGCATTACCCATGTACTTTTTCATCTGCAGCTTGGCTGTGGCTGATATGCTGGTGA  
GCGTTTCAAATGGATCAGAAACCATTGTCATCACCTATTAACAGTACAGATACGGATGCACAGAGTTT  
CACAGTGAATATTGATAATGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTGCAGCCTG  
CTTTCAATTGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCATAACATTATGACAGTTA  
AGCGGGTTGGGATCATCATAAGTTGTATCTGGGCAGCTTGACCGGTTTCAGGCATTTTGTTCATCATTTA  
CTCAGATAGTAGTGCTGTATCATCTGCCTCATCACCATGTTCTTCACCATGCTGGCTCTCATGGCTTCT  
CTCTATGTCCACATGTTCTGATGGCCAGGCTTCACATTAAGAGGATTGCTGTCTCCCGGCACTGGTG  
CCATCCGCCAAGGTGCCAATATGAAGGGAGCGATTACCTTGACCATCCTGATTGGCGTCTTTGTTGTCTG  
CTGGGCCCCATTCTCTCCACTTAATATTCTACATCTTGTCTCAGAATCCATATTGTGTGTGCTTC  
ATGTCTCACTTTAACTTGTATCTCATACTGATCATGTGTAATTCAATCATCGATCCTCTGATTTATGCAC  
TCCGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTGTTGCTATCCCCTGGGAGGCTTTGTGA  
CTTGTCTAGCAGATAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG211026 representing NM\_005912  
 Red=Cloning site Green=Tags(s)

MVNSTHRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQLFVSPEVFVTLGVISLLENILVIVAIA  
 KNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVNIDNVDSVICSSLLASICSL  
 LSIADVRYFTIFYALQYHNIMTVKRVGIIISCIWAACVSGILFIIYSDSSAVIICLITMFFTMLALMAS  
 LYVHMFMLMARLHIKRIAVLPGTGAIHQGANMKGAITLTILIGVFVVCWAPFFLHLIFYISCPQNPYCVCF  
 MSHFNLYLILIMCNSIIDPLIYALRSQELRKTFKEIICCYPLGGLCDLSSRY

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005912

**ORF Size:** 996 bp

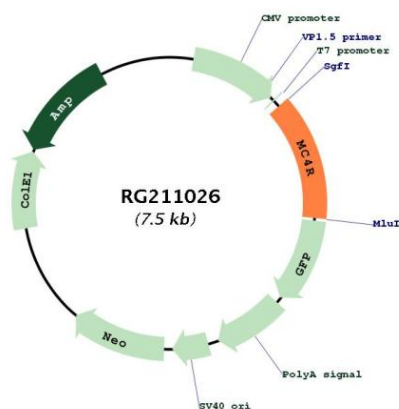
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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:	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<a href="#">NM_005912.3</a>
RefSeq Size:	999 bp
RefSeq ORF:	999 bp
Locus ID:	4160
UniProt ID:	<a href="#">P32245</a>
Cytogenetics:	18q21.32
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	The protein encoded by this gene is a membrane-bound receptor and member of the melanocortin receptor family. The encoded protein interacts with adrenocorticotrophic and MSH hormones and is mediated by G proteins. This is an intronless gene. Defects in this gene are a cause of autosomal dominant obesity. [provided by RefSeq, Jan 2010]

## Product images:



Circular map for RG211026