

## Product datasheet for **RG209203**

### GPR78 (NM\_080819) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPR78 (NM_080819) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR78
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209203 representing NM_080819 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCCCCGGCGAGGCGCTGCTGGCGGGTCTCCTGGTGATGGTACTGGCCGTGGCGCTGCTATCCAACG  
CACTGGTGCTGCTTTGTTGCGCCTACAGCGCTGAGCTCCGCACTCGAGCCTCAGGCGTCCCTGGTGAA  
TCTGTCTCTGGGCCACCTGCTGCTGGCGGGCTGGACATGCCCTTCACGCTGCTCGGTGTATGCGCGG  
CGGACACCGTGGCGCCCGCGCATGCCAAGCATTGGCTTCTGGACACCTTCTGGCGTCCAACGCGG  
CGCTGAGCGTGGCGGGCTGAGCGCAGACAGTGGTGGCAGTGGGCTTCCCACTGCGCTACGCGGACG  
CCTGCGACCGCGCTATGCCGGCCTGCTGCTGGGCTGTGCCTGGGACAGTCGCTGGCCTTCTCAGGCGCT  
GCACTTGGCTGCTCGTGGCTTGGCTACAGCAGCGCCTTCGCGTCTGTTGCTGCGCCTGCCGCCGAGC  
CTGAGCGTCCGCGCTTCGCAGCCTTACCAGCCAGCTCCATGCCGTGGGCTTCGTGCTGCCGCTGGCGGT  
GCTCTGCCTCACCTCGCTCCAGGTGCACCGGGTGGCACGCAGACACTGCCAGCGCATGGACACCGTCACC  
ATGAAGGCGCTCGCGTCTCGCCGACCTGCACCCAGTGTGCGGCAGCGCTGCCTATCCAGCAGAAGC  
GGCGCCGCCACCGCGCCACCAGGAAGATTGGCATTGCTATTGCGACCTTCTCATCTGCTTTGCCCGTA  
TGTCATGACCAGGCTGGCGGAGCTCGTGCCTTCGTACCGTGAACGCCAGTGGGGCATCTCAGCAAG  
TGCTGACCTACAGCAAGGCGGTGGCCGACCCGTTACGTAATCTGCTCGCCGGCGCTCCGCCAAG  
TCTGGCCGGCATGGTGCACCGGCTGCTGAAGAGAACCCCGCCAGCATCCACCCATGACAGCTCTCT  
GGATGTGGCCGGCATGGTGCACCAAGCTGCTGAAGAGAACCCCGCCAGCGTCCACCCACAACGGCTCT  
GTGGACACAGAGAATGATTCTGCTGCAGCAGACACAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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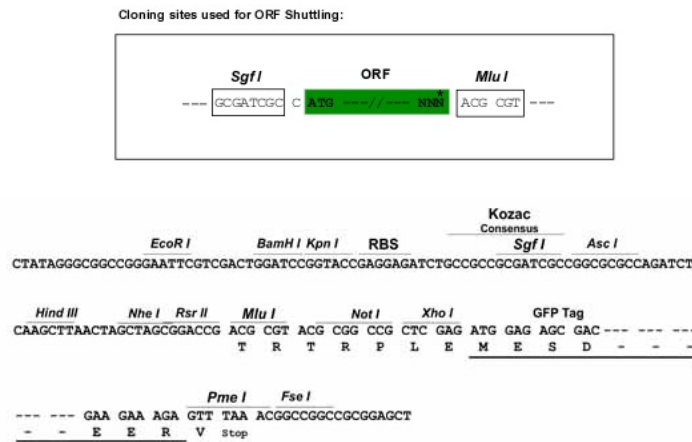
**Protein Sequence:** >RG209203 representing NM\_080819  
 Red=Cloning site Green=Tags(s)

MGPGEALLAGLLVMVLAVALLSNALVLLCCAYSaelRTRASGVLLVNLslGHLLLAALDMPFTLLGVMRG  
 RTPSAPGACQVIGFLDTFLASNAALSVAALSADQWLAVGFPLRYAGRLRPRYAGLLLGCWQSLAFSGA  
 ALGCSWLGYSsafASCSLRLPPEPERPRFAAFTATLHAVGFVPLAVLCLTSLQVHRVARRHCQRMDTvt  
 MKALALLADLHPSVRQRCLIQKRRRRHRATRKIGIAIATFLICfAPYVMTRLAELVPFVTVNAQWGILSK  
 CLTYSKAVADPFtYsLLRRPFRQVLagMvHRLlKRTPRPASTHDSsLDVagMvHQLlKRTPRPASTHNGS  
 VDTENDSCLQqTH

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_080819

**ORF Size:** 1089 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\\_080819.5](#)

**RefSeq Size:** 1955 bp

**RefSeq ORF:** 1092 bp

**Locus ID:** 27201

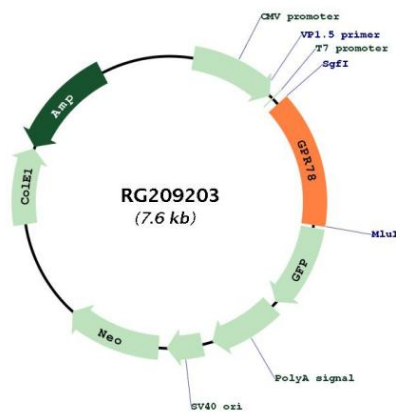
**UniProt ID:** [Q96P69](#)

**Cytogenetics:** 4p16.1

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Gene Summary:** The protein encoded by this gene belongs to the G protein-coupled receptor family, which contain 7 transmembrane domains and transduce extracellular signals through heterotrimeric G proteins. This is an orphan receptor, which displays significant level of constitutive activity. Association analysis shows preliminary evidence for the involvement of this gene in susceptibility to bipolar affective disorder and schizophrenia. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2011]

### Product images:



Circular map for RG209203