

Product datasheet for **MG216977**

Prrg4 (NM_178695) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Prrg4 (NM_178695) Mouse Tagged ORF Clone
 Tag: TurboGFP
 Symbol: Prrg4
 Synonyms: 9930111I18Rik; TMG4
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >MG216977 representing NM_178695
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTTCCACTTCTGATCGTACTCAGCCAGCTGCCAGACTTACCCTCGCAGTTCCTCATTGTATCAGAA
 GCCTAAAGGATTCCGAACATGCCCCAGAAGAAGTCTTTGCGTCAAAGAAGCAGCAAACATCTTTATGCA
 CCGCCGCCTCTGAACAATAGGTTTGTCTAGAACTCTTCACTCCTGGGACCTGGAGAGAGAGTGTAT
 GAGGAGTTCTGTAGTTATGAAGAAGCCAGAGAGATTTGGGGGATGATGAAAATACGATCAAATTTGGC
 AGACTTATTCAATTAAGGACCAACCACAGGATCAGATGTTAACAAAGAGAAAATTGATGTTATGAGCCT
 TCTGACTGGATTGATTGTTGCTGGAGTATTCTTGTTATTTTGGCTTAGTTGGCTACTATGTATGTCTC
 ACCAAGTGTAAGGCGCCATATCCAAGCTCTTCAAGCAACTACACAAGAACGGCCAGATACACACCTT
 CCATTGTTTTCCGAAGCCTGAGGAAGCTGTCTTATCTCCATCAACATCTTCAAGGATGCAGGACTACC
 TTCTATGAACAGGCAGTAGCACTGACCAGAAAGCACAGTGTCTCACCACCACCTCCCTATCCTGGGCC
 GCAAGAGGATTTAGGTTATTTAAAAAGTCCATGTCCCTCCCATCTCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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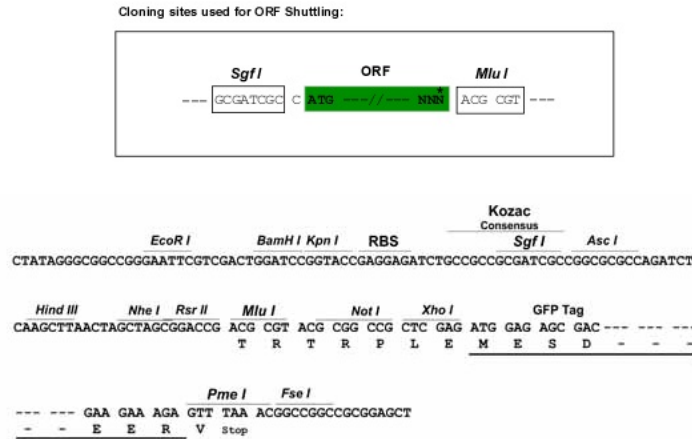
Protein Sequence: >MG216977 representing NM_178695
Red=Cloning site Green=Tags(s)

MFPLLIVLSQLPRLTLAVPHCIRSLKDSEHAPEEVFASKEAANIFMHRLLNNRFDLELFTPGDLERECY
 EEFCSEYEEAREILGDDETIKFWQTYSIKGPPTGSDVNKEIDVMSLLTGLIVAGVFLVIFGLVGYVYVCL
 TKCKRRPYSSSANYTRTARYTPSIVFRSPPEEAVLSPSTSSDAGLPSYEQVAVALTRKHVSVPPPPYPGP
 ARGFRVFKKSMSLPSH

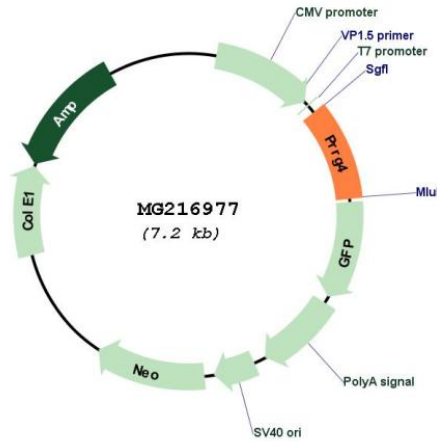
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_178695

ORF Size: 678 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">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_178695.5 , NP_848810.3
RefSeq Size:	2846 bp
RefSeq ORF:	681 bp
Locus ID:	228413
UniProt ID:	Q8BGN6
Cytogenetics:	2 E2
Gene Summary:	May control axon guidance across the CNS (By similarity). Prevents the delivery of ROBO1 at the cell surface and downregulates its expression (By similarity).[UniProtKB/Swiss-Prot Function]