

## Product datasheet for **MG209940**

### **Raver2 (NM\_183024) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |                                           |
|---------------------------|-------------------------------------------|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | Raver2 (NM_183024) Mouse Tagged ORF Clone |
| Tag:                      | TurboGFP                                  |
| Symbol:                   | Raver2                                    |
| Synonyms:                 | A430091O22Rik                             |
| Mammalian Cell Selection: | Neomycin                                  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                   |
| E. coli Selection:        | Ampicillin (100 ug/mL)                    |



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**ORF Nucleotide  
Sequence:**

>MG209940 representing NM\_183024  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**

ATGGCGGCGCGGGAGGCGCGCGGGGGCGGGGCTCGGATCCGGACCCTCTGCTGGGACGGCGGGG  
 AGGCCGCGGAGCCCGCGCTGCGCCCGGGGAGGTGGCTGCGCTGCACCCAGGAGGTGGCTGCACGGCT  
 GCAGCGGATGCGACGGGAGCTGAGCAACCGCGGAAAAATCCTAGTGAAAAACCTGCCACAGGACAGCAGC  
 TCCAGGAGGTTTCATGAGTTATTACAGGACTATGAGCTAAAGTATTGCTATGTGGACAGGAATAAACGAA  
 CAGCTTTTGTACCTTATTGAATGGGGAGCAGGCGCAGAGCGCGATTGAGAGTTTCATCAGTTTCTTT  
 CCGAGGACAGAGTTGACAGTGCAGCTGCAGCCACAGACGCTCTCTGTGCATACCAACCTGCCATC  
 TCCTTCACCTTAGAAGAGTTTGAAGAACTCGTCCGTGCCTATGGCAACATCGAGAGATGTTTTTGGTCT  
 ACAGTGAAGTTACTGGCCACTCCAAAGGCTACGGGTTTGTGGAGTACATGAAGAAGGACTTTGCTGCCAA  
 GGCCAGACTGGAGCTACTGGGACGCGAGATGGGAGCCTCGGCGCTCTTCGCACAGTGGATGGATGTTAAT  
 CTCTTGGCCTCGAGCTCATCCATTCTAAGTGCCTTTGTATAGATAAACTCCCCAGTGACTACAGCGATT  
 CGGAAGAGCTCTTGCAACTTTTTCCGGTATCCATAAACCTGTGTTTTGCCAGCTTGACAGGATGAAGG  
 AAGTCACGGTGGTGGCTTTGCGGTGGTTGAATATAGCACTGCGGAGCATGCCAAGAGGTTGAGCAGGTG  
 GCAGATGGCATCACCATCAAGGGGAGCCAAGTTCAACTGTCTTCTGCGCCCGAGGACACAGGGCGAA  
 GCACTCTAGCAGTCTCATAGCAGCTCAGCGCGGATGCACAGTAATCAAAGGGATTACTGCCAGAACC  
 CAATCCGGTACAGATTATGAAAAGTTTAAACAACCTGCCATGTTACAAGTTCTTCTGCAGCCCGAGCTA  
 TCGGACGAGCCATGAAGCCAGTTCTCGGAGTCGCGCCAGCTTATCTCACCTGCTGAGTCCGTCAGTCC  
 CCTCCGCCATCTTACACTTCAGTAAAGCACAGCAGAGCTCAGCTGTGGTAATACATCGTCTTAATCCT  
 TCAGAACCTGTCTCCCTTGCCCTTGATACAGCAACAGTTGATGAAGTTTGACAATGCCACACTAACAAAT  
 AAGCCTGGCTTGCTGGGAGAGCCTCCTGCCATGGTACTGCAGCCTGCTCTGGCGATAGGGCCACCGCTTC  
 CACTGAAAACGGACCTGGGACACCATGGCGAAGCACACAAAACATCTAACCTGATTCCACCTCAGACGAC  
 ATTGGCAGCCGGGCTGGGCATGCTGCCGTTCTTCTCAAACCAGCTCCCTGCTGGACAAGCCGGCCGGGG  
 CGTGGGACCACTCAGGAGAAACAGTCCGCTTCGGTGAGCATTAGCGAAGCTAGCTTCTCAGGGTCGCAGC  
 ATTACCTGCAGACCTTCCAGGCCTTCTGCTGGAGGCCCGCTGACGGGCAACCAGAAGACACCGCAGAG  
 CCAGCCAAAAGGCACAGAGGTTGCCTCTAAGAATCAGACTTCACTCTTGGGAGAACCACAAAAGAGATC  
 CGGCTCAGTAAAAATCCATATTTGAATTTGGCAAGTGTGCTACCCAGTGTGTGCCTATCCACTGCAGGTA  
 AAGGCATGCCTCCGAAGACTGGAATTGCGAGCAACATTCTGGATGCGATCTCTCAGGGAAGTGAGTCCCA  
 GCATGCACTGGAGAAGTGCATCGCTATTCTCCATCCATCGAGGATTATGCCAGGCATCTCTTGTAGG  
 AATGAGAAGCGAGGCTCTCTATCTCTGCCCCAGAAGGAGGCCCGGTAGAACTCGCTGGCCAGC  
 ACCCTCAGGACACCGGAGTGAGCTACACAGAACTACTTGAAAAAGAAGCGTGTGTAC

**ACGCGT**ACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

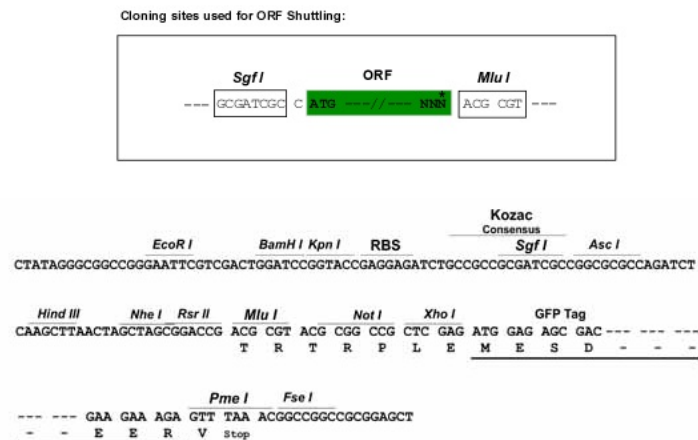
**Protein Sequence:** >MG209940 representing NM\_183024  
 Red=Cloning site Green=Tags(s)

MAARGGGAGGAGSGSGPSAGTAGEEAEPALRPGEVAALHPQEVAARLQMRRELSNRRKILVKNLPQDSS  
 SQEVHELLQDYELKYCYVDRNKRTAFVTLNNGEQASAIQRHQFSFRGRELTVQLQPTDALLCITNLP  
 SFTLEEFEEELVRAYGNIERCFLVYSEVTGHSKGYGFVEYMKKDFAAKARLELLGRQMGASALFAQWMDVN  
 LLASELIHCLKCIDKLPSDYSDEELLQLFSGIHKPVFCQLAQDEGSHGGGFVVEYSTAEHAEEVQQV  
 ADGITIKGSQVQLSFCAPGAPGRSTLAVLIAAQRAMHSNQKGLLEPNPQIMKSLNNPAMLQVLLQPQL  
 CGRAMKPVLGAVPSLSHLLSPSLPSAILHFSKAQQSSAVGNTSSLILQNLSPPLIQQQLMKFDNAHTNN  
 KPGLLEPPAMVLQPALAIGPPLPLKTDLGHGGEAHKTSNLIPPQTTLAAGLGMLPFFSNQLPAGQAGPG  
 RGTTEKQASVSISEASFSGSQHYLQTFPLPAGGPLTGNQKTPQSQPKGTEVASKNQTSLLGEPPEI  
 RLSKNPYLNLSVCLSTAGKGMPPKTGIASNILDAISQGSSEQHAEKCIAYSPSIEDYAQASSLR  
 NEKRGSSYLISAPEGGPVELAGQHPQDTGVSYTETYLKKKRVY

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_183024

**ORF Size:** 2019 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_183024.1](#), [NP\\_898845.1](#)

**RefSeq Size:** 4006 bp

**RefSeq ORF:** 2022 bp

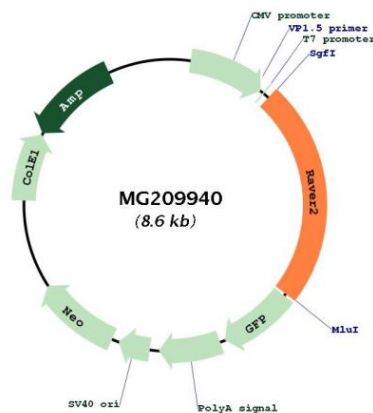
**Locus ID:** 242570

**UniProt ID:** [Q7TPD6](#)

**Cytogenetics:** 4 C6

**Gene Summary:** May bind single-stranded nucleic acids.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG209940