

## Product datasheet for **MC222513**

### **Grm8 (NM\_008174) Mouse Untagged Clone**

#### **Product data:**

|                           |                                       |
|---------------------------|---------------------------------------|
| Product Type:             | Expression Plasmids                   |
| Product Name:             | Grm8 (NM_008174) Mouse Untagged Clone |
| Tag:                      | Tag Free                              |
| Symbol:                   | Grm8                                  |
| Synonyms:                 | A230002004; Gprc1h; mGluR8            |
| Mammalian Cell Selection: | Neomycin                              |
| Vector:                   | pCMV6-Entry (PS100001)                |
| E. coli Selection:        | Kanamycin (25 ug/mL)                  |



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**Fully Sequenced ORF:** >MC222513 representing NM\_008174  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTTGTGAGGAAAGCGCTCAACCTCTTGCCTTGTCTTCTCTTTGACTGCCAAGTTCTACTGGA  
 TCCTCACAAATGATGCAAAGAAGCTCACAGCCAGGAGTATGCGCATTCCATCCGCCTGGATGGGACATCAT  
 TTTGGGGGTCTTTTTCTGTTTCATGCCAAGGGAGAAAGAGGGGTGCCTTGTGGGACCTGAAGAAGGAA  
 AAGGGCATCCACAGACTTGAGGCCATGCTTTATGCAATCGACCAGATTAATAAGGACCCCGATCTCTCT  
 CCAATATCACTCTGGGTGTCGGATCCTTGACACATGTTCCAGGGACACCTATGCTTTGGAGCAGTCACT  
 AACCTTCGTGCAGGCACTGATAGAGAAAGACCGCTGACGTGAAGTGTGCTAATGGAGACCCACCATA  
 TTCACCAAGCCCGACAAGATTTCTGGTGCATAGGTGCTGCAGCAAGCTCCGTGCCATCATGGTGGCTA  
 ACATTTAAGACTTTTTAAGATACCTCAGATTAGCTATGCATCTACAGCCCAGAGCTAAGTGACAACAC  
 CAGGTATGATTTCTTTCTCGGGTGGTCCCGCCTGACTCCTACCAAGCCCAAGCCATGGTGGACATTGTG  
 ACAGCCCTGGGATGGAATTATGTGTCAACACTGGCTCCGAGGGGAACATGGAGAGAGTGGTGTGAGG  
 CCTTCACTCAGATCTCAAGGGAGATTGGTGGTGTGGCATTGCTCAATCACAGAAAAATCCACGTGAACC  
 AAGACCTGGAGAATTCGAAAAAATTATCAAACGCCTGCTGGAGACACCCAACGCTCGCGCAGTGATTATG  
 TTTGCCAATGAGGATGACATCAGGAGGATATTGGAAGCAGCAAAAAATTAACCAGAGTGGGCATTTTC  
 TATGGATTGGCTCAGATAGTTGGGGATCCAAAATAGCACCTGTCTATCAGCAGGAGGAGATCGCCGAAGG  
 AGCTGTGACAAATTTGCCAAAAGAGCATCAATTGATGGGTTTGACCGATACTTTAGAAGCCGAACTCTT  
 GCCAATAATCGAAGAAATGTGTGGTTTCAGAAATTTGGGAGGAGAATTTGGATGCAAAATAGGATCAC  
 ATGGAAGAGGAACAGTCATATAAAGAAATGCACAGGGCTGGAGCGAATTGCACGGGATCATCTTACGA  
 ACAAGAAGGAAAAGTTCAATTTGTAATTGATGCAGTGTATTCCATGGCTTATGCACTGCACAACATGCAC  
 AAAGAACTCTGCCCTGGTTACATAGGCCTTTGCCAAGGATGGTTACCATCGATGGGAAAAGACTACTGG  
 GTTACATCAGGGCCGTGAATTTAATGGCAGCGCTGGTACACCTGTCACTTTTAAAGAGAATGGAGATGC  
 TCCGGGACGCTACGATATCTTCCAATATCAGATAAAACAACAAAAGTACAGAATACAAAATCATCGCCAC  
 TGGACCAATCAACTTCACCTAAAAGTGGAGACATGCAGTGGGCTAATAGAGAGCACACGCCACCCAGCAT  
 CTGTCTGCAGCCTGCCGTGCAAGCCTGGGGAGAGGAAGAAAACCGTGAAGGGTCCCTTGTCTGGCA  
 CTGTGAACGCTGCGAGGGTTATAACTACCAGGTGGACGAACTCTCTGTGAACTCTGCCCTTTGGATCAG  
 AGACCAAAACATCAACCGCACTGGCTGCCAGAGGATTCCCATCATCAAGTTGGAGTGGCATTACCCCTGGG  
 CCGTGGTACCTGTGTTATAGCAATATTGGGAATCATTGCCACCACCTTTGTGATTGTGACCTTTGTCCG  
 CTATAATGACACACCAATCGTGAGAGCTTCTGGGCGGGAACCTAGTTATGTGCTCCTAACGGGGATTTTT  
 CTCTGTACTCAATCACTTTTTGATGATTGCGGCACCTGACACAATCATCTGCTTTTCCGAAGGATCT  
 TCCTGGGACTTGGTATGTGTTTCAGCTATGCAGCACTTTTGACCAAAACAAACCGTATCCACCGAATATT  
 CGAGCAAGGGAAGAAATCTGTACAGCACCTAAGTTATCAGCCCAGCATCCCAGCTGGTGATCACCTTC  
 AGCCTCATCTCCGTACAGCTCCTTGGAGTGTGTGTGGTTTGTGCTGGATCCCCCACACCATCATTG  
 ACTATGGAGAACAGCGAACACTGGATCCCGAGAACGCCAGGGGAGTGTCAAGTGTGACATTTCCGATCT  
 GTCACCTATTTGTTCACTGGGATACAGTATCCTCCTGATGGTCACTTGTACTGTTTATGCCATTAACCC  
 AGAGGGGTTCCAGAAACGTTCAATGAAGCCAAACCTATTGGATTTACCATGTACACCACGTGCATCATTT  
 GGTTAGCTTTTCAATCCCATCTTTTTTGGTACAGCCCAGTCAAGCAAAAAGATGTACATCCAGACAACAAC  
 ACTTACTGTCTCCATGAGTTAAGTGTTCAGTGTCTCTGGGAATGCTCTATATGCCAAAGTTTATATT  
 ATAATTTTTCATCCAGAGCAGAACGTTCAAAAACGCAAGAGAAGCTTCAAGGCTGTGGTACGGCCGCTA  
 CCATGCAAAGCAAACGATCCAAAAGGGAATGACAGACCAAACGGCGAGGTGAAAAGTGAACCTGTGA  
 GAGTCTTGAACCAACAGTAAGTCACTGTAGACTTTCAGATGGTCAAGAGCGGGAGCACTTCC**TAA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII  
**ACCN:** NM\_008174

|                               |   |
|-------------------------------|---|
| <b>Insert Size:</b>           | 2727 bp   |
| <b>OTI Disclaimer:</b>        | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <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> |
| <b>RefSeq:</b>                | <u><a href="#">NM_008174.2</a></u> , <u><a href="#">NP_032200.2</a></u>   |
| <b>RefSeq Size:</b>           | 3693 bp   |
| <b>RefSeq ORF:</b>            | 2727 bp   |
| <b>Locus ID:</b>              | 14823   |
| <b>Cytogenetics:</b>          | 6 A3.1- A3.2  |
| <b>Gene Summary:</b>          | <p>G-protein coupled receptor for glutamate. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors. Signaling inhibits adenylate cyclase activity.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes isoform 1.</p>   |