

## Product datasheet for RN204975

### Crygb (NM\_001109875) Rat Untagged Clone

#### Product data:

|                           |                                                                                    |
|---------------------------|------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                |
| Product Name:             | Crygb (NM_001109875) Rat Untagged Clone                                            |
| Tag:                      | Tag Free                                                                           |
| Symbol:                   | Crygb                                                                              |
| Synonyms:                 | Cryg2; Len                                                                         |
| Mammalian Cell Selection: | Neomycin                                                                           |
| Vector:                   | pCMV6-Entry (PS100001)                                                             |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                               |
| Fully Sequenced ORF:      | >RN204975 representing NM_001109875<br>Red=Cloning site Blue=ORF Orange=Stop codon |

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGAAAGATCACCTTCTTCGAGGACCGAGGCTTCCAGGGCCGCTGCTATGAGTGCAGCAGCGACTGCC  
 CCAACCTGCAGACCTACTTCAGCCGCTGCAACTCCGTCCGCTGGACAGTGGCTGCTGGATGCTCTATGA  
 GCGACCAACTACCAGGGCCACCACTACTTCTGCGACGCGGGGACTACCCTGACTACCAGCAGTGGATG  
 GGTTTCAGCGACTCCATTCGCTCCTGCCGCTCATCCCCAACACTCGGGCACTTACAGAATGAGGATCT  
 ACGAAAGAGATGACTTCAGAGGACAAATGTCAGAGATCACAGACGACTGTCTCTCTTTCAGGATCGCTT  
 CCACCTCAGCGAGATTCACTCCCTCAATGTAATGGAGGGCTGCTGGGTCCTCTATGAGATGCCTAGCTAC  
 AGAGGGCGCCAGTACCTGCTGAGGCCGGGAGAGTACAGGAGATATCTTGACTGGGGGCTGCAAACGCCA  
 AAGTTGGCTCTTTTAGAAGAGTCATGGATTTTACT**GA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

|                    |                                                                                                                                                                                                                                                                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Restriction Sites: | SgfI-MluI                                                                                                                                                                                                                                                                                                                                      |
| ACCN:              | NM_001109875                                                                                                                                                                                                                                                                                                                                   |
| Insert Size:       | 528 bp                                                                                                                                                                                                                                                                                                                                         |
| OTI Disclaimer:    | 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). |


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|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>NM_001109875.1, NP_001103345.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>RefSeq Size:</b>           | 626 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>RefSeq ORF:</b>            | 528 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Locus ID:</b>              | 301468                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>UniProt ID:</b>            | <u>P10066</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Cytogenetics:</b>          | 9q32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene Summary:</b>          | Crystallins are the dominant structural components of the vertebrate eye lens.<br>[UniProtKB/Swiss-Prot Function]                                                                                                                                                                                                                                                                                                                                                                                                 |