

## Product datasheet for **RN211063**

### Chac2 (NM\_001025016) Rat Untagged Clone

#### Product data:

|                           |                                                                                    |
|---------------------------|------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                |
| Product Name:             | Chac2 (NM_001025016) Rat Untagged Clone                                            |
| Tag:                      | Tag Free                                                                           |
| Symbol:                   | Chac2                                                                              |
| Synonyms:                 | RGD1309120                                                                         |
| Mammalian Cell Selection: | Neomycin                                                                           |
| Vector:                   | pCMV6-Entry (PS100001)                                                             |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                               |
| Fully Sequenced ORF:      | >RN211063 representing NM_001025016<br>Red=Cloning site Blue=ORF Orange=Stop codon |

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTGGGTGTTTGTTATGGGTCCCTCATTTGGAAGGTGGACTTCCCCTACCAGGACAAGCTGGTTGGTT  
 ACATCACAACTACAGCCGGCGCTTCTGGCAAGGCAGCACCGACCACCGCGGGTCCCCGGCAAGCTGG  
 AAGAGTTGTGACCCTTGTGAAGATCCTGGGGCAGTGTATGGGGTGTGCTTACAACTACCAGTCGGG  
 AAAGAAGAGGAAGTAAAAACATACCTTGACTTCAGAGAGAAAGGAGGCTACAGAACTACAACAGTCATTT  
 TTTATCCAAAAGATTCCACAACAAACCATTCACTGTTTGTCTACATTGGAACATGTGACAATCCTAA  
 CTATCTTGACCGGCACCTCTGGAAGACATTGCTGAACAAATTTTAATGCAGCTGGTCCAAGTGAAGA  
 AATACAGAATATCTTTTGAAGTTGCAGATTCTATTAGGAACTGTGCCAGAAGATGCAGACGAGCATC  
 TCTTCTTTGGAAAAATTAGTAAAGGAACGCTTAGAAGGAAAA**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

|                    |                                                                                                                                                                                                                                                                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Restriction Sites: | SgfI-MluI                                                                                                                                                                                                                                                                                                                                      |
| ACCN:              | NM_001025016                                                                                                                                                                                                                                                                                                                                   |
| Insert Size:       | 537 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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|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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"><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> |
| RefSeq:                | <u>NM_001025016.1</u> , <u>NP_001020187.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| RefSeq Size:           | 1250 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| RefSeq ORF:            | 537 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Locus ID:              | 360994                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| UniProt ID:            | <u>Q641Z5</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Cytogenetics:          | 14q22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Gene Summary:          | Catalyzes the cleavage of glutathione into 5-oxo-L-proline and a Cys-Gly dipeptide. Acts specifically on glutathione, but not on other gamma-glutamyl peptides.[UniProtKB/Swiss-Prot Function]                                                                                                                                                                                                                                                                                                                    |