

## Product datasheet for **SC300098**

### C Reactive Protein (CRP) (NM\_000567) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                                       |
| Product Name:             | C Reactive Protein (CRP) (NM_000567) Human Untagged Clone |
| Tag:                      | Tag Free  |
| Symbol:                   | C Reactive Protein  |
| Synonyms:                 | PTX1  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)                                    |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                      |

**Fully Sequenced ORF:** >OriGene sequence for NM\_000567 edited  
 ATGGAGAAGCTGTTGTGTTTCTTGGTCTTGACCAGCCTCTCATGCTTTTGGCCAGACA  
 GACATGTCGAGGAAGGCTTTTGTGTTTCCCAAAGAGTCGGATACTTCTATGTATCCCTC  
 AAAGCACCGTTAACGAAGCCTCTCAAAGCCTTCACTGTGTGCCTCCACTTCTACACGGAA  
 CTGTCCTCGACCGTGGGTACAGTATTTTCTCGTATGCCACCAAGAGACAAGACAATGAG  
 ATTCTCATATTTTGGTCTAAGGATATAGGATACAGTTTTACAGTGGTGGGTCTGAAATA  
 TTATTCGAGGTTCTGAAGTCACAGTAGCTCCAGTACACATTTGTACAAGCTGGGAGTCC  
 GCCTCAGGGATCGTGGAGTTCTGGGTAGATGGGAAGCCCAGGGTGAGGAAGAGTCTGAAG  
 AAGGGATACACTGTGGGGCAGAAGCAAGCATCATCTTGGGGCAGGAGCAGGATTCCTTC  
 GGTGGGAACCTTGAAGGAAGCCAGTCCCTGGTGGGAGACATTGGAATGTGAACATGTGG  
 GACTTTGTGCTGTCACCAGATGAGATTAACACCATCTATCTTGGCGGGCCCTTCAGTCT  
 AATGTCCTGAAGTGGCGGCCTGAAGTATGAAGTGAAGGCGAAGTGTTCACCAAACCC  
 CAGCTGTGGCCCTGA

|                    |  |
|--------------------|--|
| Restriction Sites: | Please inquire   |
| ACCN:              | NM_000567  |
| Insert Size:       | 700 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). |
| OTI Annotation:    | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.   |



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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><a href="#">NM_000567.2</a></u> , <u><a href="#">NP_000558.2</a></u>   |
| <b>RefSeq Size:</b>           | 2024 bp   |
| <b>RefSeq ORF:</b>            | 675 bp  |
| <b>Locus ID:</b>              | 1401  |
| <b>UniProt ID:</b>            | <u><a href="#">P02741</a></u>   |
| <b>Cytogenetics:</b>          | 1q23.2  |
| <b>Protein Families:</b>      | Secreted Protein  |
| <b>Gene Summary:</b>          | <p>The protein encoded by this gene belongs to the pentraxin family which also includes serum amyloid P component protein and pentraxin 3. Pentraxins are involved in complement activation and amplification via communication with complement initiation pattern recognition molecules, but also complement regulation via recruitment of complement regulators. The encoded protein has a calcium dependent ligand binding domain with a distinctive flattened beta-jellyroll structure. It exists in two forms as either a pentamer in circulation or as a nonsoluble monomer in tissues. It is involved in several host defense related functions based on its ability to recognize foreign pathogens and damaged cells of the host and to initiate their elimination by interacting with humoral and cellular effector systems in the blood. Consequently, the level of this protein in plasma increases greatly during acute phase response to tissue injury, infection, or other inflammatory stimuli. Elevated expression of the encoded protein is associated with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection. [provided by RefSeq, Aug 2020]</p> <p>Transcript Variant: This variant (2) retains an intron in the 3' UTR compared to variant 1. Both variants 1 and 2 encode the same isoform (1).</p> |