

Product datasheet for **SC300618**

C10orf90 (NM_001004298) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | C10orf90 (NM_001004298) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | C10orf90 |
| Synonyms: | bA422P15.2; FATS |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene sequence for NM_001004298 edited
 ATGCTCAAAGTCTGGAGAAGGATTACGGGACAGCTACCCACAGTAGAAGAGATCAAATT
 GCCCTTAAAAATCTCCAGTCTGATGTCACAGAGGCAAAATCTGACTTCACCAAGGAGACC
 CTGGCATCACAAAACAAAAATGATTTTCATCCATAGTCATCTCCCAGATGATTGATGAG
 AATAAGTCAAGAGAAAACAGGGCCTCCTGCCCCACCGTGTGCCATTGCTCAGTCTCGT
 GCACATCAGCCAAGCAATCTCTGGCTAACCGCAGCGGAGTCAACATTACAGAGCATTT
 GCGTTACTTCCGGGCAGATTAGGAATCCCGGCACCGTCAGATGAGCGAGGACCTGAGGCA
 GAGCTGCCGCCAAAGAGGAGAGACCCTGTGGGGCCCCCGCAGAGGGTTTGCATCCATC
 ACCATCACGGCCAGACGCGTGGGCCCCCCAGCCCGCGCCCTGGTGTGGGGACTGCTGGG
 GACTCTGTGCCCCAAGTGCAGGGCTGAGGACACACTGTTCCAGGCGCCCCGGCTCTG
 GCCAATGGCGCCCATCCAGGTCGGCATCAGAGATCTTTTGCCTGCACAGAGTTCTCCAGA
 AACAGCTCCGTGGTGGGCTGAAGGTTCCCGAGGCCACACTGGGTTGTGTGAGAGACGC
 AAGTACTGGGTCACCCATGCAGACGACAAAGAGACCAGTTTTTCTCCAGACACCCACTG
 TCAGGAAAGAGCCCGCTGGTGTTCAGTTCCTGTGTCCACCTCAGGGTGTCTCAGCAGTGT
 CCAGATTCATCTATTACGTAGACAAGTCTCTCTCCGTCCCATTGAGCCACCTCAAATT
 GCCAGCCCCAAAATGCACAGATCCGTCCTGTGCTCAACCTCAATTGTAGTTCCACAGA
 TTAACAGCAGATGGAGTAGATGGCCTAGTGAACAGAGAGCCAATAAGCGAAGCCCTGAAG
 CAGGAGCTCCTGGAGGGAGACCAGGACCTCGTAGGCCAGCGCTGGAACCCAGGTTTACAA
 GAAAGTCACTTGAAGGAAACCCATCGTTGAGGCGGGTGCATTTGGGGACCGGCGCTTGT
 CCTTGGAGTGGTCTTTTCCATTGGAAAACACAGAATTGGCAAATGTGGGAGCTAACCAA
 GTCACTGTAAGAAAAGGGGAAAAGGACCATACTCACTATTGTACGCCAGCGATCATGCC
 AACCAACTGTCCATTACATTCTGGCTGGAGTTACAGGGCAGTACACACAAAAGTATTT
 TCTGGAAGCAGCAAGAGGCAACAAGGAGAAGTATGTATGACTGTGTCTGCTCCTCCAGTG
 GAACAGAAGCCCACTAGACATTTCTTCCATTGGGGATAGCTCTCCAAGCGATGACTGT
 CTGTCTAGAGACCTTTCTGAGCCACAGAGAGACGACATCAAAGCTTCTGAAACCCAGA
 ATCCTTTTTCTGGGTTTCTTGGCCCTTACAAGATGTATGTGCATCTCTGCAGGAAGAC
 AATGGTGTTCAGATAGAAAGCAAGTTCCCAAAGGAGATTACACATGCTGTGACTTGGTT
 GTAAAAATAAAGGAATGTAAAGAGTGGAGACCCACCACACTGAGCCCTCCCAGCA
 GCACCCTCGCCAGCACCCCGGATGGAGCAGGGAGCCCTGGCCTGTCCGAAGACTGTTCT
 GAGTCTCAGCAAACGCTGCAAGATCTTTGACCTTGAAGAAGCACTGGAAGTTCGTAAG
 CCTCAGTTCATTTCTCGCTCACAAGAACGGCTGAAGAAGCTTGAACACATGGTCCAGCAG
 AGGAAAGCCAGCGGAAGGAGGACCTGAGGCAGAAGCAGAGCCTCCTTCCATCCGACC
 AGCAAGAAGCAGTTCACGATTCCTCATCTCTGAGTGATAACTTGTTCAAACCCAAAGAA
 CCGTGCATTTTCAAGAGGAGATGCATATGCGATCTAAGAGAATCTATGATAACTTGCCG
 GAAGTTAAAAAGAAAAAGAAAGAAAGGAAAAGGGTGTCTTACAAAGTAAACAGACTC
 CGTGCCGAAGTCTTAAAAAGCAATTACTGGACCAGCTCCTTCAAAGGAATGCGGTCTAA

Restriction Sites: Please inquire

ACCN: NM_001004298

Insert Size: 2100 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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| 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">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. |
| RefSeq: | <u>NM_001004298.2</u> , <u>NP_001004298.2</u> |
| RefSeq Size: | 3097 bp |
| RefSeq ORF: | 2100 bp |
| Locus ID: | 118611 |
| UniProt ID: | <u>Q96M02</u> |
| Cytogenetics: | 10q26.2 |
| Gene Summary: | Tumor suppressor that is required to sustain G2/M checkpoint after DNA damage. Acts as a p53/TP53 activator by inhibiting MDM2 binding to p53/TP53 and stimulating non-proteolytic polyubiquitination of p53/TP53. Exhibits ubiquitin ligase (E3) activity and assemble ubiquitin polymers through 'Lys-11'- (K11-), 'Lys-29'- (K29-) and 'Lys-63'- (K63)-linkages, independently of the ubiquitin-conjugating enzyme (E2). Promotes p53/TP53-dependent transcription of CDKN1A/p21, leading to robust checkpoint response. Mediates CDKN1A/p21 protein stability in a ubiquitin-independent manner. Interacts with HDAC1 and prevents binding of HDAC1 to CDKN1A/p21 and facilitates the acetylation and stabilization of CDKN1A/p21 (By similarity). May have a role in the assembly of primary cilia (Probable).[UniProtKB/Swiss-Prot Function] |