

## Product datasheet for **SC315023**

### AP2 alpha (AP2A1) (NM\_014203) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                                |
| Product Name:             | AP2 alpha (AP2A1) (NM_014203) Human Untagged Clone |
| Tag:                      | Tag Free   |
| Symbol:                   | AP2 alpha  |
| Synonyms:                 | ADTAA; AP2-ALPHA; CLAPA1                           |
| Mammalian Cell Selection: | None   |
| Vector:                   | <u><a href="#">pCMV6-XL6</a></u>                   |
| E. coli Selection:        | Ampicillin (100 ug/mL)                             |



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**Fully Sequenced ORF:**

>OriGene ORF sequence for NM\_014203 edited  
 ATGCCGGCCGTGTCCAAGGGCGATGGGATGCGGGGGCTCGCGGTTCATCTCCGACATC  
 CGGAACCTGTAAGAGCAAAGAGGGCGAAATTAAGAGAATCAACAAGGAACTGGCCAACATC  
 CGCTCCAAGTTCAAAGGAGACAAAGCCTTGATGGCTACAGTAAGAAAAATATGTGTGT  
 AAAGTCTTTTTCATCTTCTGCTGGCCATGACATTGACTTTGGGCACATGGAGGCTGTG  
 AATCTGTTGAGTTCCAATAAATACACAGAGAAGCAAATAGTTACCTGTTCAATTTCTGTG  
 CTGGTGAACCTCGAAGCTCGAGCTGATCCGCCTCATCAACAACGCCATCAAGAATGACCTG  
 GCCAGCCGCAACCCACCTTCATGTGCCTGGCCCTGCACTGCATCGCCAACGTGGGCAGC  
 CGGGAGATGGGGAGGCCTTTGCCGCTGACATCCCCCGCATCCTGGTGGCCGGGACAGC  
 ATGGACAGTGTCAAGCAGAGTGCGGCCCTGTGCCTCCTTCGACTGTACAAGGCCTCGCCT  
 GACCTGGTGCCCATGGGCGAGTGGACGGCGCGTGTGGTACACCTGCTCAATGACCAGCAC  
 ATGGGTGTGGTACGGCCCGCTCAGCCTCATCACCTGTCTCTGCAAGAAGAACCAGAT  
 GACTTCAAGACGTGCGTCTCTGGCTGTGTCGCGCTGAGCCGATCGTCTCTCTGCC  
 TCCACCGACCTCCAGGACTACACCTACTACTTCGTCCCAGCACCTGGCTCTCGGTGAAG  
 CTCTGCGGCTGTGAGTGTACCCGCTCCAGAGGATGCGGCTGTGAAGGGGGCGCTG  
 GTGGAATGTCTGGAGACTGTGCTCAACAAGGCCAGGAGCCCCAAATCCAAGAAGGTG  
 CAGCATCCAACGCCAAGAACGCCATCCTCTTCGAGACCATCAGCCTCATCATCCACTAT  
 GACAGTGAAGCCAACTCCTGGTTGCGGCCTGCAACCAGCTGGGCCAGTTCCTGCAGCAC  
 CGGGAGACCAACTGCGCTACCTGGCCCTGGAGAGCATGTGCACGCTGGCCAGCTCCGAG  
 TTCTCCCATGAAGCCGTCAAGACGCACATTGACACCGTCAATGCCCTCAAGACGGAG  
 CGGGACGTGAGCGTGGGCGAGCGGGCGGCTGACCTCCTACGCCATGTGTGACCCGAGC  
 AATGCCAAGCAGATCGTGTGGAGATGCTGCGGTACCTGGAGACGGCAGACTACGCCATC  
 CGCGAGGAGATCGTCTGAAGGTGGCCATCCTGGCCGAGAAGTACGCCGTGGACTATAGC  
 TGGTACGTGGACACCATCCTCAACCTCATCCGCATTGCGGGCGACTACGTGAGTGAGGAG  
 GTGTGGTACCGTGTGCTACAGATCGTCACCAACCGTGTGACGTCCAGGGCTATGCCGCC  
 AAGACCGTCTTTGAGGCGCTCCAGGCCCTGCCTGTACGAGAACATGGTGAAGGTTGGC  
 GGCTACATCCTTGGGAGTTTGGGAACCTGATTGCTGGGGACCCCGCTCCAGCCCCCA  
 GTGCAGTTCTCCCTGCTCCACTCCAAGTTCCATCTGTGCAGCGTGGCCACGCGGGCGCTG  
 CTGCTGTCCACCTACATCAAGTTCATCAACCTCTCCCCGAGACCAAGGCCACCATCCAG  
 GCGTCTGCGGGCCGGTCCCAGCTGCGCAATGCTGACGTGGAGCTGCAGCAGCGAGCC  
 GTGGAGTACCTCACCTCAGCTCAGTGGCCAGCACCGACGTCCTGGCCACGGTGTGGAG  
 GAGATGCCGCCCTTCCCCGAGCGGAGTGTCCATCCTGGCCAAGCTGAAACGCAAGAAG  
 GGGCCAGGGGCCGAGCGCCCTGGACGATGGCCGGAGGGACCCCAAGCAGCAACGACATC  
 AACGGGGGCATGGAGCCACCCCAAGCACTGTGTGACGCGCCCTCGCCCTCCGCCGACCTC  
 CTGGGGCTGCGGGCAGCCCTCCCCCGGACGACCCCGGCTTCTGCAGGAGCAGGGAAC  
 CTTCTGGTGGACGTTTCGATGGCCCGCCGCGCCAGCCAGCCTGGGGCCACCCCGGAG  
 GAGGCCTCCTCAGCGAGCTGGAGCCGCTGCCCCGAGAGCCCATGGCTTTGCTGGCT  
 GACCCAGCTCCAGCTGCTGACCCAGTCTGAGGACATCGGCCCTCCCATCCGGAAGCC  
 GATGATTGCTGAATAAGTTTGTGTGTAAGAACAACGGGTCTGTTTCGAGAACCAGCTG  
 CTGCAGATCGGAGTCAAGTCAGAGTTCGACAGAACCTGGGCCGATGTATCTCTCTAT  
 GGCAACAAGACCTCGGTGCAATTCAGAAATTTCTACCCACTGTGGTTACCCCGGAGAC  
 CTCCAGACTCAGCTGGCTGTGCAGACCAAGCGCGTGGCGGCGAGGTGGACGGCGGCGG  
 CAGGTGCAGCAGGTGCTCAATATCGAGTGCCTGCGGGACTTCTGACGCCCCGCTGCTG  
 TCCGTGCGCTTCCGGTACGGTGGCGCCCCAGGCCCTCACCTGAAGCTCCAGTGACC  
 ATCAACAAGTTCTCCAGCCACCGAGATGGCGGCCAGGATTTCTCCAGCGCTGGAAG  
 CAGCTGAGCTCCCTCAACAGGAGGCGCAGAAAATCTTCAAAGCCAACCACCCATGGAC  
 GCAGAAGTACTAAGCCAAGCTTCTGGGTTTGGCTCTGCTCTCTGGACAATGTGGAC  
 CCCAACCTGAGAACTTCTGTTGGGGCGGGATCATCCAGACTAAAGCCCTGCAGGTGGGC  
 TGCTGCTTCCGGCTGGAGCCAATGCCAGGCCAGATGTACCGCTGACCTGCGCACC  
 AGCAAGGAGCCGCTCCCGTCACTGTGTGAGCTGCTGGCACAGCAGTTCTGA

**Restriction Sites:**

Please inquire

|                               |  |
|-------------------------------|--|
| <b>ACCN:</b>                  | NM_014203  |
| <b>Insert Size:</b>           | 3500 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>OTI Annotation:</b>        | The open reading frame of this clone has been fully sequenced and found one SNP within the protein associated with this reference, NM_014203.2. This SNP doesn't change amino acid.  |
| <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_014203.2</a></u> , <u><a href="#">NP_055018.2</a></u>  |
| <b>RefSeq Size:</b>           | 3499 bp  |
| <b>RefSeq ORF:</b>            | 2934 bp  |
| <b>Locus ID:</b>              | 160  |
| <b>UniProt ID:</b>            | <u><a href="#">O95782</a></u>  |
| <b>Cytogenetics:</b>          | 19q13.33   |
| <b>Domains:</b>               | Adaptin_N, Alpha_adaptin_C, Alpha_adaptinC2  |
| <b>Protein Pathways:</b>      | Endocytosis, Huntington's disease  |
| <b>Gene Summary:</b>          | <p>This gene encodes the alpha 1 adaptin subunit of the adaptor protein 2 (AP-2) complex found in clathrin coated vesicles. The AP-2 complex is a heterotetramer consisting of two large adaptins (alpha or beta), a medium adaptin (mu), and a small adaptin (sigma). The complex is part of the protein coat on the cytoplasmic face of coated vesicles which links clathrin to receptors in vesicles. Alternative splicing of this gene results in two transcript variants encoding two different isoforms. A third transcript variant has been described, but its full length nature has not been determined. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform of this protein.</p> |