

## Product datasheet for **SC118977**

### Clusterin (CLU) (NM\_001831) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Clusterin (CLU) (NM_001831) Human Untagged Clone
Tag:	Tag Free
Symbol:	Clusterin
Synonyms:	AAG4; APO-J; APOJ; CLI; CLU1; CLU2; KUB1; NA1/NA2; SGP-2; SGP2; SP-40; TRPM-2; TRPM2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC118977 sequence for NM\_001831 edited (data generated by NextGen Sequencing)

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ATGCAGGTTTGCAGCCAGCCCCAAAGGGGGTGTGTGCGCGAGCAGAGCGCTATAAATACG
GCGCCTCCAGTGCCACAACGCGGCGTCGCCAGGAGGAGCGCGGGCACAGGGTGCCG
CTGACCGAGGCGTGCAAAGACTCCAGAATTGGAGGCATGATGAAGACTCTGCTGCTGTTT
GTGGGGTGTGCTGACCTGGGAGAGTGGGCAGGTCCTGGGGGACCAGACGGTCTCAGAC
AATGAGCTCCAGGAAATGTCCAATCAGGGAAGTAAGTACGTCAATAAGGAAATTCAAAAT
GCTGTCAACGGGGTGAACAGATAAAGACTCTCATAGAAAAAACAAACGAAGAGCGCAAG
ACACTGCTCAGCAACCTAGAAGAAGCCAAGAAGAAGAAAGAGGATGCCCTAAATGAGACC
AGGGAATCAGAGACAAAGCTGAAGGAGCTCCCAGGAGTGTGAATGAGACCATGATGGCC
CTCTGGGAAGAGTGTAAGCCCTGCCTGAAACAGACCTGCATGAAGTTCTACGCACGCGTC
TGCAGAAGTGGCTCAGGCCTGGTTGGCCGCCAGCTTGAGGAGTTCCTGAACCAGAGCTCG
CCCTTCTACTTCTGGATGAATGGTGACCGCATCGACTCCCTGCTGGAGAACGACCGGCAG
CAGACGCACATGCTGGATGTCATGCAGGACCACTTCAGCCGCGCTCCAGCATCATAGAC
GAGCTCTTCCAGGACAGGTTCTTCAACCGGGAGCCCCAGGATACCTACCCTACCTGCC
TTCAGCCTGCCACCAGGAGGCCTCACTTCTTCTTCCCAAGTCCCGCATCGTCCGACG
TTGATGCCCTTCTCCGTACGAGCCCCGAACTTCCACGCCATGTTCCAGCCCTTCCCTT
GAGATGATACAGAGGCTCAGCAGGCCATGGACATCCACTTCCATAGCCCGCCTTCCAG
CACCCGCCAACAGAAATTCATACGAGAAGGCGACGATGACCGGACTGTGTGCCGGGAGATC
CGCCACAACCTCCACGGGCTGCCTGCGGATGAAGGACCAGTGTGACAAGTCCCGGGAGATC
TTGTCTGTGGACTGTTCCACCAACAACCCCTCCAGGCTAAGCTGCGGCGGGAGCTCGAC
GAATCCCTCCAGTGCCTGAGAGGTTGACCAGGAAATACAACGAGCTGCTAAAGTCTAC
CAGTGGAAAGATGCTCAACACCTCCTCTTGTGGAGCAGCTGAACGAGCAGTTTAACTGG
GTGTCCCGGCTGGCAAACCTCACGCAAGGCGAAGACCAGTACTATCTGCGGGTCAACCAG
GTGGCTTCCACACTTCTGACTCGGACGTTCTTCCGGTGTCACTGAGGTGGTCTGTAAG
CTCTTTGACTCTGATCCCATCACTGTGACGGTCCCTGTAGAAGTCTCCAGGAAGAACCCT
AAATTTATGGAGACCGTGGCGGAGAAAGCGCTGCAGGAATACCGCAAAAAGCACCAGGAG
GAGTGA
    
```

Clone variation with respect to NM\_001831.2

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_001831 unedited
AGAATTTTGTAAACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGCTTCCGC
GGCATTCTTTGGGCGTGAGTCATGCAGGTTTGCAGCCAGCCCCAAAGGGGGTGTGTGCGC
GAGCAGAGCGCTATAAATACGGCGCCTCCAGTGCCACAACGCGGCGTCGCCAGGAGGA
GCGCGCGGGCACAGGGTCCCGCTGACCGAGGCGTGCAAAGACTCCAGAATTGGAGGCATG
ATGAAGACTCTGCTGCTGTTTGTGGGGCTGCTGCTGACCTGGGAGAGTGGCAGGTCCTG
GGGACCAGACGGTCTCAGACAATGAGCTCCAGGAAATGTCCAATCAGGGAAGTAAGTAC
GTCAATAAGGAAATTCAAAATGCTGTCAACGGGGTGAACAGATAAAGACTCTCATAGAA
AAAAACAACGAAGAGCGCAAGACTGCTCAGCAACCTAGAAGAAGCCAAGAAGAAGAAA
GAGGATGCCCTAAATGAGACCAGGGAATCAGAGACAAAGCTGAAGGAGCTCCAGGAGTG
TGCAATGAGACCATGATGGCCCTCTGGGAAGAGTGTAAAGCCCTGCCTGAAACAGACCTGC
ATGAAGTTCTACGCACGCGTCTGCAGAAGTGGCTCANGCCTGGTTGGCCGCCAGCTTGAG
GAGTTCTGAACCAGAGCTCGCCCTTCTACTTCTGGATGAATGGTGACCGCATCGACTCC
CTGCTGGAGAACGACCGGACGACGACGCATGCTGGNATGTCATGCAGGACCACTTCAG
CCGCGCGTCCAGCATCATAGACGAGCTCTCAGNACAGTTNCTTACCCGGGAGCCCCAG
ATACCTACACTATNNNNNN
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_001831 unedited AGGANACCGGGTCACAGGGCATGCCACCCGGGTATCTGTTCAGGAAAACAGCTATGACCG CGGCCGCAATCTAGAGTCGAGTT TTTTTTTTTTTTTTTTTTCCACCCACAAAACATTTTTATTGAATTTTGCAGGCA GGAACAATTTTTTCTTCCCATGAACACCAAATCAAGTGTTAAAGTGCAGGATCCAAAC CGGGGAAAGGCTGGGCGGATTTGGGGCCCGGAGGCCGGGCCTGTTACTTGGTGACCT GCAAACCCCTCTCGGGGGGCCCCCCCATCTTGGGGGAGCTGGAATCAAATCCCCC GTGGGGGCAAAAACAAAATCCACATCTCACTCCTCCCGGTGCTTTTTGGGGTTTTCCGGC CGCGCTTTCCCCCACCAGTCCCCAAAAATTTAGGGTTCTCCCGGAAACTTCTACGGGG ACCGTCACAGGGGGGGTTCAAATCAAAAAACTTACAACCCCCAGTGACCCCGGAA GGAACGTCCGAATCAAAGTGTGGGAACCCACCGTGGTCAACCCAAAAAAAACGGGTCT CTCCCTTGCGGGGAGTTTCCCCCGGGACACCAATTAACGGGCCGTTTACCGCCC CCAAAAGGGGGAGGGGGTGAACACCCTCCCCGGGTGGGAAATTAACCACCCCTGTT TTTTCGCGGGCCCCCCCCACCACCCGAGGGGAATTCCTCAACCTCCCACACAAACATA AATCGGGGGGGGTTGTTTGGGGGAACAACTCACAAAAATATTCTCCCGGAATCGA AACAAAGAGTTTTCTTTCCAGGAAAAACCCGAGGGGTTGTGGACGAGATCCCCAAACAA AAAGAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001831
<b>Insert Size:</b>	1900 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>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_001831.2</a></u> , <u><a href="#">NP_001822.2</a></u>
<b>RefSeq Size:</b>	2859 bp
<b>RefSeq ORF:</b>	1506 bp
<b>Locus ID:</b>	1191
<b>UniProt ID:</b>	<u><a href="#">P10909</a></u>
<b>Cytogenetics:</b>	8p21.1
<b>Domains:</b>	CLa
<b>Protein Families:</b>	Druggable Genome, Secreted Protein

**Gene Summary:**

The protein encoded by this gene is a secreted chaperone that can under some stress conditions also be found in the cell cytosol. It has been suggested to be involved in several basic biological events such as cell death, tumor progression, and neurodegenerative disorders. Alternate splicing results in both coding and non-coding variants.[provided by RefSeq, May 2011]

Transcript Variant: This variant (1) encodes the functional protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.