

## Product datasheet for **SC127872**

### CLN5 (NM\_006493) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CLN5 (NM_006493) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLN5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_006493, the custom clone sequence may differ by one or more nucleotides

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ATGCGCCGGAACCTGCGCTTGGGGCCAAGCTCTGGAGCTGACGCGCAGGGGCAAGGCGCCCCGCTCCCC
GACTGGCGGCTCCGCGCATGCTCCTCCCACCGCGTCGCAGGCCTCGAGAGGCTCCGGAAGTACTGGGTG
CAGCCTGATGGCGCAGGAGGTAGACACGGCACAGGGCGCCGAGATGCGGCGGGGCGGGCGCGGCTCGG
GGACGCGCTTCTGGTGTGGGCCCTGGCGTGTCTTGGCTCGCGGTGGTTCCGGGCTGGTCCCGGGTCT
CGGGCATCCCCCTCCGCGGCCACTGGCCGGTGCCTACAAGCGCTTTGACTTCCGTCCAAAACCTGATCC
TTATTGTCAAGCTAAGTATACTTTCTGTCCAACCTGGCTCACCTATCCCAGTTATGGAGGGTGATGATGAC
ATTGAAGTTTTTCGATTACAAGCCCCAGTATGGGAATTTAAATATGGAGACCTCCTGGACACTTGAAAA
TTATGCATGATGCCATTGGATTGAGAAAGTACATTAAGTGGCAAGAACTACACAATGGAATGGTATGAACT
TTTCCAACCTGGCAACTGTACATTTCCCATCTCCGACCTGAAATGGATGCCCTTTCTGGTGAATCAA
GGCGCTGCCTGCTTTTTGAGGGAATTGATGATGTTCACTGGAAGGAAAATGGGACATTAGTTCAAGTAG
CAACTATATCAGGAAACATGTTCAACCAATGGCAAAGTGGGTGAAACAGGACAATGAAACAGGAATTTA
TTATGAGACATGGAATGTAAAAGCCAGCCAGAAAAGGGGCGAGAGACATGGTTTGATTCTACGACTGT
TCCAAATTTGTGTTAAGGACCTTAACAAGTTGGCTGAATTTGGAGCAGAGTTCAAGAACATAGAAACCA
ACTATACAAGAATATTTCTTTACAGTGGAGAACCTACTTATCTGGGAAATGAAACATCTGTTTTGGGCC
AACAGGAAACAAGACTCTTGGTTTAGCCATAAAAAGATTTTATTACCCCTCAAACCACATTTGCCAACT
AAAGAATTTCTGTTGAGTCTCTTGCAAATTTTGTATGCAGTGATTGTGCACAAACAGTTCTATTTGTTTT
ATAATTTGAATATTGGTTTTTACCTATGAAATCCCTTTTATTAATAAACATATGAAGAAATCCCTTT
ACCTATCAGAAACAAAACACTCTCTGGTTATAA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_006493 unedited</p> <pre>CCGTCCCAGTACGCAAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAG CTCATTAGGTGACACTATAGAATAACAAGCTACTTGTCTTTTTGCAGCGGCCGCGAATT CTCCTGGGAGCCAGACCAAAAGCACCTTCTGGACTGCAAAGTGTGGAAGCCGCCGCGGGC CGGGCCGGGGAGGTGTCATGTGCCGGAACCTGCGCTTGGGGCCAAGCTCTGGAGCTGAC GCGCAGGGGCAAGGCGCCCGCGTCCCGGACTGGCGCTCCGCGCATGCTCTCCACCG GCGTCGACAGGCCCTCGAGAGGCTCCGGAAGTACTGGGTGCAGCTGATGGCGCAGGAGGTA GACACGGCACAGGGCGCCGAGATGCGGGCGGGCGCGGGCGCGGCTCGGGGACGCGCTTCC TGGTGCTGGGCCCTGGCGCTGCTTTGGCTCGCGGTGGTTCGGGGCTGGTCCCGGGTCTCG GGCATCCCCTCCCGGCGCCACTGGCCGGTGCCCTACAAGCGCTTTGACTTCCGTCCAAA CCCTGATCCTTTATTGTCCAGCTNAGGTATACTTTCTGGTCCCCTGGGGCTCACCTAAT CCCAGTTATGGGAGGGTATTGATGACAATTGGAAGTTTTTTTCAATAACAAGCCCCAG TATTGGGAATTTAAATTATGGAGACCCTCTGGGGACCACTGAAAAAATATGCCTGGA TGCCATTTGGATTCCANAAAGTCCCATTAAGTTCGAAAGAACTTACACAATGGGAATGGG TTTGAACTTTTTCAACTGTCAATGTGTCATTTTCCCTTTTCTCCAACCTGAATGGAT GCCCTTTTTCGGTGTAATAAAGGCCCTCCCTGGTTTTTTGGGG</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_006493 unedited</p> <pre>GGAGAGGCACTGGGGAGGGGTACAGGGATGCCACCCGGGATCTGTTTCAGGAAACAGCTA TGACCGCGGCCGCAACTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTAAACAAGCCCAATTTTTTAAATTAGACCCAACAGAAACAAAAACC CTCCAATAAATTGTTTATAAAAGCTTCCGGCAGTATCTGTAATTTTCCACAGACC AGTAACATCTGGTTGGCAGGCACTGGTCTGAGGACCACACTTCGGTGCTAAAAGCCTGGA CTATAGTGATCCAATTCAGTCAGCAAAACCGGGTTCAAGACCTGACTCATTACTACT AGCTGGATAGCCAAAAAAGATCACTTAGCCTTTCTAAGGGCACTTTACTCATTGTGAT CAGTTAATTATATCTATGATTAAGCTTTCTGTGAAAGCTCAATAATAATGGACCAACCC CTCAGGGAGTTCTTGAAGGTGGAACGGAACCAAAAAATTTGGGACCTTAAACAATA AAAACGGGAATTGGTTTTATACGAAACCAACCCCTTCTTACGGGAAGGGGTTTTT CCCCCTGGAAAAAAAACGGTGTTCAGTTGTTCCCAAAAAAATAAAGGACTTTGAA GCTTGGTTGGGCCATATTAAGCACACTTCCTTG</pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_006493
<b>Insert Size:</b>	3000 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>

RefSeq: [NM\\_006493.1](#), [NP\\_006484.1](#)

RefSeq Size: 4080 bp

RefSeq ORF: 1224 bp

Locus ID: 1203

UniProt ID: [O75503](#)

Cytogenetics: 13q22.3

Protein Pathways: Lysosome

**Gene Summary:** This gene is one of eight which have been associated with neuronal ceroid lipofuscinoses (NCL). Also referred to as Batten disease, NCL comprises a class of autosomal recessive, neurodegenerative disorders affecting children. The genes responsible likely encode proteins involved in the degradation of post-translationally modified proteins in lysosomes. The primary defect in NCL disorders is thought to be associated with lysosomal storage function. [provided by RefSeq, Oct 2008]