

## Product datasheet for **SC108820**

### CHSY1 (NM\_014918) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHSY1 (NM_014918) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHSY1
Synonyms:	CHSY; ChSy-1; CSS1; TPBS
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_014918, the custom clone sequence may differ by one or more nucleotides

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ATGGCCGCGCGCGGCCGGCGCGCCTGGCTCAGCGTGCTGCTCGGGCTCGTCTGGGCTTCGTGCTGGCCT
CGCGGCTCGTCTGCCCGGGCTTCCGAGCTGAAGCGAGCGGGCCACGGCGCCGCGCCAGCCCCGAGGG
CTGCCGGTCCGGGCAGGCGGGCTTCCAGGCCGGCGGGCGCGCGGATGCGCGCGGGGCGCAGCTC
TGGCCGCCCGGCTCGGACCCAGATGGCGGCCCGCGGACAGGAACTTTCTTCTGTTGGGAGTCATGACCG
CCCAGAAATACCTGCAGACTCGGGCCGTGGCCGCTACAGAACATGGTCCAAGACAATTCCTGGGAAAGT
TCAGTTCTTCAAGTGAGGGTCTGACACATCTGTACCAATTCAGTAGTGCCACTACGGGGTGTGGAC
GACTCCTACCCGCCCAGAAGAAGTCTTCATGATGCTCAAGTACATGCACGACCACTACTTGGACAAGT
ATGAATGGTTTATGAGAGCAGATGATGACGTGTACATCAAAGGAGACCGTCTGGAGAATTCCTGAGGAG
TTTGAACAGCAGCGAGCCCTCTTCTTGGGCAGACAGGCTGGGCACCACGGAAGAAATGGGAAAAGT
GCCCTGGAGCCTGGTGAAGTCTGATGGGGGGCCCTGGCGTATCATGAGCCGGGAGGTGCTTCGGA
GAATGGTCCGACATTTGCAAGTGTCTCCGGGAGATGTACACCACCCATGAGGACGTGGAGGTGGGAAG
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TTGAACTGATGAGAGATTACCGCATTAAAGTACCCTAAAGCCGACATGCAGATTTTGCCTGTGTCTGGAGA
GTTTTCAAGAGCCCTGGCCCTGGAAGTAGGATCCTCCAGTTTAAACAATGAATCTTTGCTCTTCTTCTGC
GACGTCGACCTCGTGTACTACAGAATTCCTTACGCGATGTCGAGCAAATACAGTCTGGGCCAACAAA
TATATTTTCCAATCATCTTCAGCCAGTATGACCCAAAGATTGTTTATAGTGGGAAAGTCCCAAGTACAA
CCATTTTGCTTTACTCAGAAAAGTGGCTTCTGGAGAACTATGGGTTTGGCATCACGTGATTTATAAG
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TCAACAAGGTTGTCCAGGCAGGTTTGAAGACGTTTAGGAGCCAGGAAGTAGGAGTAGTCCACGTCCACCA
TCCTGTCTTTGTGATCCCAATCTTGACCCAAACAGTACAAAATGTGCTTGGGGTCCAAAGCATCGACC
TATGGGTCCACCCAGCAGCTGGCTGAGATGTGGCTGAAAAAAATGATCCAAGTTACAGTAAAAGCAGCA
ATAATAATGGCTCAGTGAGGACAGCCTAA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_014918 unedited</p> <pre>TGCAGCATTAGGCATACGACTCACTATAGGGCGGCCGGAATCGGCACCAGGGCGGCCCG GCGGGCGGAGCGCGCGGGCATGGCCGCGCGGGCCGGCGCGCCTGGCTCAGCGTGCTGC TCGGGCTCGTCTGGGCTTCGTGCTGGCCTCGCGGCTCGTCTGCCCGGGCTTCCGAGC TGAAGCGAGCGGGCCACGGCGCCGCGCCAGCCCCGAGGGCTGCCGGTCCGGGCAGGCGG CGGCTTCCCAGGCCGGCGGGCGCGCGCATGCGCGGGGCGCAGCTCTGGCCGCCCCG GCTCGGACCCAGATGGCGGCCCGCGCGACAGGAACCTTCTCTTCGTGGGAGTCATGACCG CCCAGAAATACCTGCAGACTCGGGCCGTGGCCGCTACAGAACATGGTCCAAGACAATTC CTGGGAAAAGTTCAAGTCTCTCAAGTGAGGGTTCTGACACATCTGTACCAATTCAGTAG TGCCACTACGGGGTGTGGACGACTCCTACCCGCCCCAGAAGAAGTCTTCATGATGCTCA AGTACATGCACGCCCACTACTTGGACAAGTATGAATGGTTTATGAGAGCAGATGATGACG TGTACATCAAAGGAGACCGTCTGGAGAACTTCTGAGGAGTTTGAACAGCAGCGAGCCCC TCTTTCTTGGGCAGACAGGCTGGGCACCACGGAAGAAATGGGAACACTGGCCCTGGAGC CTGGCGAGAACTTCTGCATGGGGGGCCCTGGCGTGATCATGAGCCGGGAGGTGCTTCGGA GCATGGTGCCGCACATTGCAAGTGTCTCCGGGAGATGTACCCACCCCAAGACGTGG AGGTGGGAAAGCGCTCCCGCAGTTTGCACGGGAGCAAAGCGTCTGGTCTATGAGATG CCCCAGCTCTTTTATGAGAAATCCACGCGCACACAACCGCGCGCT</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_014918 unedited</p> <pre>AACAATACGTGCCACCGCCGCCCAATTTAGATNCGAGTTTTTTTTCTTTTTTTTTTTCAC TGGTTTGCAAATTTTATCTGAAAACAAATTTATTAAGGCACATTTGATCTGAGAATTTAA CTTTTTGGTATAATGACAGATTCATTTAATTTTTGTCCCAAAACACATGAGCACAAAAA TTGTTAAAGAACACTTAATATTTCACTAAAACCGTAGGGAATATAAAATTTTTTGTAGGGG AAAAAGTGTTTCCAAAAGGAAATTTTTGGAGATCGTTTTATTGTAATAAAACAGACTAA ACACATTTCCCGATTCCCATAAATAATACTAATTAATAGGTAAGTCAAGAAATGGCAGAGTT ATGAACAACAGACATTAATAAATTAAGGTATTTTCCAGAAACAAAGGATAAAACAAAACC GTAATGAAAGAATGAAAACCATCTTCCATCCACCTACAACCACAAGGATGAAAGGACCAC CACCCAATACATTTTTACTCTAACGTTTTTGGACATGGGTGATGTGTTTTGTGTTACATT CTGTGAACCTACCATACATCGAAATACATTCAAACCTGCATTCTAACCCCTAACCTAACCT ACATTTCCAAAAACCGTTTTTTTACCACCCAGCCATCTTTTTCCCTCCCTCCTAACGCT CCCATCCACATTTCCCTATGACACCCCTATGAGACCCTTTCATTTATTATTGCCCCC CCCCACCCAGCATTACCTTCAACACCCCCACACCTCTCCCTCCCTATTAATTATCCT CCACCTACTTCCCTTGTCTATCCCAACCCCTACTAATTCCCATACGCTACTCTCT ATTCACCTCCCTCATTTTATCCCACTTCCCTCCGCACATCGTTCTCCTCTCATCCCC TCATAATACTCTCTATTCATATCATTCTCCTATATCATCCTCTATCGCTCCTCTCTAC ACCACCACCCCAACATCACACCCT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_014918
<b>Insert Size:</b>	4500 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>	<a href="#">NM_014918.3</a> , <a href="#">NP_055733.2</a>
<b>RefSeq Size:</b>	4567 bp
<b>RefSeq ORF:</b>	2409 bp
<b>Locus ID:</b>	22856
<b>UniProt ID:</b>	<a href="#">Q86X52</a>
<b>Cytogenetics:</b>	15q26.3
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Chondroitin sulfate biosynthesis, Metabolic pathways
<b>Gene Summary:</b>	This gene encodes a member of the chondroitin N-acetylgalactosaminyltransferase family. These enzymes possess dual glucuronyltransferase and galactosaminyltransferase activity and play critical roles in the biosynthesis of chondroitin sulfate, a glycosaminoglycan involved in many biological processes including cell proliferation and morphogenesis. Decreased expression of this gene may play a role in colorectal cancer, and mutations in this gene are a cause of temtamy preaxial brachydactyly syndrome. [provided by RefSeq, Dec 2011]