

## Product datasheet for **SC118577**

### CD73 (NT5E) (NM\_002526) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD73 (NT5E) (NM_002526) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD73
Synonyms:	CALJA; CD73; E5NT; eN; eNT; NT; NT5; NTE
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 SC118577 sequence for NM\_002526 edited (data generated by NextGen Sequencing)

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ATGTGTCCCCGAGCCGCGGGCGCCCGACGCTACTCCTCGCCCTGGGCGCGGTGCTG
TGGCCTGCGGCTGGCGCCTGGGAGCTTACGATTTTGCACACCAACGACGTGCACAGCCGG
CTGGAGCAGACCAGCGAGGACTCCAGCAAGTGCGTCAACGCCAGCCGCTGCATGGGTGGC
GTGGCTCGGCTCTTACCAAGGTTTACGAGATCCGCGCGCCGAACCCAACTGCTGCTG
CTGGACCGCGGCGACCACTACCAGGGCACTATCTGGTTACCCGTGTACAAGGGCGCCGAG
GTGGCGCACTTTCATGAACGCCCTGCGCTACGATGCCATGGCACTGGGAAATCATGAATTT
GATAATGGTGTGAAGGACTGATCGAGCACTCCTCAAAGAGGCCAAATTTCCAATTCTG
AGTGCAAACATTAAGCAAAAGGGCCACTAGCATCTCAAATATCAGGACTTTATTTGCCA
TATAAAGTTCTTCTGTTGGTGTGAAGTTGTGGGAATCGTTGGATACACTTCCAAAGAA
ACCCCTTTTCTCTCAAATCCAGGGACAAATTTAGTGTGTTGAAGATGAAATCACTGCATTA
CAACCTGAAGTAGATAAGTTAAAACTCTAAATGTGAACAAAATATTGCACTGGGACAT
TCGGGTTTTGAAATGGATAAACTCATCGCTCAGAAAGTGAGGGGTGTGGACGTCGTGGT
GGAGGACTCCAACACATTTCTTTACACAGGCAATCCACCTTCAAAGAGGTGCCTGCT
GGGAAGTACCCATTCATAGTCACCTTCTGATGATGGGCGGAAGGTTCTGTAGTCCAGGCC
TATGCTTTTGGCAAATACCTAGGCTATCTGAAGATCGAGTTTGTGAAAGAGGAAACGTC
ATCTTTCCCATGGAAATCCCATTCTTCTAAACAGCAGCATTCTGAAGATCCAAGCATA
AAAGCAGACATTAACAAATGGAGGATAAAATGGATAATTATTCTACCCAGGAATTAGGG
AAAACAATTGCTATCTGGATGGCTCCTCTCAATCATGCCGCTTTAGAGAATGCAACATG
GGCAACCTGATTTGTGATGCAATGATTAACAACAACCTGAGACACGCGGATGAAATGTT
TGAACCACTGATCCATGTGCATTTTAAATGGAGGTGGTATCCGGTCGCCATTGATGAA
CGCAACAATGGCACAATTACCTGGGAGAACCTGGCTGCTGATTGCCCTTTGGAGGCACA
TTTGACCTAGTCCAGTTAAAAGGTTCCACCCTGAAGAAGGCCTTTGAGCATAGCGTGCAC
CGCTACGGCCAGTCCACTGGAGAGTTTCTGCAGGTGGGCGGAATCCATGTGGTGTATGAT
CTTTCCGAAAACCTGGAGACAGAGTAGTCAAATTAGATGTTCTTTGCACCAAGTGTGCA
GTGCCAGTTATGACCCTCTCAAATGGACGAGGTATATAAGGTGATCTCCAAACTTC
CTGGCCAATGGTGGAGATGGGTTCCAGATGATAAAAGATGAATTATTAAGACATGACTCT
GGTGACCAAGATATCAACGTGGTTTCTACATATATCTCCAAAATGAAAGTAAATTTATCCA
GCAGTTGAAGGTGGATCAAGTTTTCCACAGGAAGTCACTGCCATGGAAGCTTTTCTTTA
ATATTTCTTTCACCTTTGGGCAGTATCTTTGTTTTATACCAATAG

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Clone variation with respect to NM\_002526.3  
1126 a=>g

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_002526 unedited

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NGGTCGGAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCCGGCTCG
CCCGCTTTCGCACCCAGTTCACGCGCCACAGCTATGTGTCCCGAGCCGCGGGCGCCC
GCGACGCTACTCCTCGCCCTGGGCGCGGTGCTGTGGCCTGCGGCTGGCGCCTGGGAGCTT
ACGATTTTGCACACCAACGACGTGCACAGCCGGCTGGAGCAGACCAGCGAGGACTCCAGC
AAGTGCGTCAACGCCAGCCGCTGCATGGGTGGCGTGGCTCGGCTCTTACCAAGGTTTCA
GAGATCCGCCGCGCCGAACCCAACTGCTGCTGCTGGACGCCGGCGACCAGTACCAGGGC
ACCTATCTGGTTACCGTGTACAAGGGCGCCGAGGTGGCGCACTTCATGAACGCCCTGCG
CTACGATGCCATGGCACTGGGAAATCATGAATTTGATAATGGTGTGGAAGGACTGATCGA
GCCACTCCTCAAAGAGGCCAAATTTCCAATTCTGAGTGCAAACATTAAGCAAAGGGGCC
ACTAGCATCTCAAATATCAGGACTTTATTTGCCATATAAAGTTCTTCTGTTGGTGTGATGA
AGTTGTGGGAATCGTTGGATACACTTCAAAGAAACCCCTTTTCTCTCAAATCCAGGGAC
ANATTTAGTGTGTTTGAAGATGAAATCACTGCATTACAACCTGAAGTAGATAAGTTAAAAA
CTCTAAATGTGAACAAANATATTGCACTGGGACATTCCGGGTTTTTGAATGGATAAACT
CATCGCTCAAAGTGAAGGGTGTNGGACCGTCTGTTGGGAGGGACCTTCAACACATTTT
CTTACACAGGCAATCCCACCTCCAAGAAGTGCCTGCTGGGTAAGACCCCATTTAGTGC
CTTTTG

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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_002526 unedited GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGAGCTTATCTTCAATTTTATTG TTGGGAATCTACAATTGCAAAGTGGTTCAAAGTCATTTCTTATACCACTCACAATACAC ACACAGATTTAGGAACTTAAAAAAGTTCTTTAAAAAATTCTAATAGGATTTACCCTAT TTTACTGGCCAAGTGTAATAAAACCCTAAATGTGCCTTTCTCTAATTTTCCTGTAC AATCTTATTGACATTTTTATAGCTAATCCATATATGCATAGAACCGAGGCTATTATTTT GCTGCAACAACCTTTTATAAAAAGGTTATGAAGTTTAAAAGTATATTTTGTATCAAGAGTA CTTAATATTTGTAACACTAAGAAACAAACATACTTCTATCAAACCTCTAGCTGCCAT TTGCACACTGTTTTAAGGTGAAGCCTCCCATTTCTTGAATTACTTATGCAGAGCTGAGC AGGCTCATGTGGTTCCACTCCCACGTTAAGTATTTGTTCTTTGGGCATAGGTCATTTTCAT CAGCATGGGTATTTCTGACCACCCACTCAGAGGGTCCCACTTTCCAGCAGAAGTTCTCA TATCTGGGCTTAAGAATGATTTACAGTGACTGTTGAGTTGGAGGCAGAGCGACTTAA AAATGTATACCTTCTCTAAAGTCATTTATTTCTTCGAGAACTCTGGACATTCATAAC TGGGTGTGTAGTATGAGTAGAATGAATTCAGTGCTAGCCTTTGCTGGAGAGGACAAGTG CANNGTTAAATTACAGCTTATGTTAAAAGGNTCTTCTCATGATACCTTCATGTANAAN AAAGAGACAGAGGCANAGCTGATGGAATCTATAAATAACAGCTAATGCCGTGTGCACG CACTATAGCTAACAGTATCTGTTAAACAGTGAATGCCCTTNACTCTTGCTTTCTATATT AAAAAGNCCTGGAGCCTGGTCTTCCCTTCTN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002526
<b>Insert Size:</b>	3270 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<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_002526.1</a> , <a href="#">NP_002517.1</a>

RefSeq Size:	3547 bp
RefSeq ORF:	1725 bp
Locus ID:	4907
UniProt ID:	<a href="#">P21589</a>
Cytogenetics:	6q14.3
Domains:	Metallophos, 5_nucleotidaseC
Protein Families:	ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Metabolic pathways, Nicotinate and nicotinamide metabolism, Purine metabolism, Pyrimidine metabolism
Gene Summary:	<p>The protein encoded by this gene is a plasma membrane protein that catalyzes the conversion of extracellular nucleotides to membrane-permeable nucleosides. The encoded protein is used as a determinant of lymphocyte differentiation. Defects in this gene can lead to the calcification of joints and arteries. Two transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar 2011]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>