

Product datasheet for **RC232913**

CD73 (NT5E) (NM_001204813) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD73 (NT5E) (NM_001204813) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NT5E
Synonyms:	CALJA; CD73; E5NT; eN; eNT; NT; NT5; NTE
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC232913 representing NM_001204813
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGTCCCCGAGCCGCGGGCGCCGCGACGCTACTCCTCGCCCTGGGCGCGGTGCTGTGGCCTGCGG
 CTGGCGCCTGGGAGCTTACGATTTTGCACACCAACGACGTGCACAGCCGGCTGGAGCAGACCAGCGAGGA
 CTCAGCAAGTGCCTCAACGCCAGCCGCTGCATGGGTGGCGTGGCTCGGCTCTTACCAAGTTCAGCAG
 ATCCGCGCGCCGAACCAACGTGCTGCTGCTGGACGCCGGCAGCAGTACCAGGGCACTATCTGGTTCA
 CCGTGTACAAGGGCGCCGAGGTGGCGCACTTTCATGAACGCCCTGCGCTACGATGCCATGGCACTGGGAAA
 TCATGAATTTGATAATGGTGTGGAAGGACTGATCGAGCCACTCCTCAAAGAGGCCAAATTTCCAATTCTG
 AGTGCAAACATTAAGCAAAGGGGCCACTAGCATCTCAAATATCAGGACTTTATTTGCCATATAAAGTTC
 TTCTGTTGGTGTGAAGTTGTGGGAATCGTTGGATACACTTCCAAGAAAACCCCTTTCTCTCAAATCC
 AGGGACAAATTTAGTGTTTGAAGATGAAATCACTGCATTACAACCTGAAGTAGATAAGTTAAAACTCTA
 AATGTGAACAAAATTATTGCACTGGGACATTCCGGTTTTGAAATGGATAAACTCATCGCTCAGAAAGTGA
 GGGGTGTGGACGTCGTGGTGGGAGGACACTCCAACACATTTCTTTACACAGGCAATCCACCTTCCAAGA
 GGTGCCTGCTGGGAAGTACCCATTCATAGTCACCTCTGATGATGGGCGGAAGTTCTGTAGTCCAGGCC
 TATGCTTTTGGCAAAATACCTAGGCTATCTGAAGATCGAGTTTGTGAAAGAGGAAACGTCATCTCTTCCC
 ATGGAAATCCCATTCTTCTAAACAGCAGCATTCTGAAGATCCAAGCATAAAAAGCAGACATTAACAAATG
 GAGGATAAAATGGATAATTATTCTACCCAGGAATTAGGGAAAACAATTGTCTATCTGGATGGCTCCTCT
 CAATCATGCCGCTTTAGAGAATGCAACATGGGCAACCTGATTTGTGATGCAATGATTAACAACAACCTGA
 GACACCGGATGAAATGTTCTGGAACACGTATCCATGTGCATTTAAATGGAGGTGGTATCCGGTCGCG
 CATTGATGAACGCAACAATGGAATCCATGTGGTGTATGATCTTTCCCGAAAACCTGGAGACAGAGTAGTC
 AAATTAGATGTTCTTTGCACCAAGTGTGAGTGCACAGTTATGACCTCTCAAATGGACGAGGTATATA
 AGGTGATCCTCCCAAACCTCCTGGCCAATGGTGGAGATGGGTTCCAGATGATAAAAAGATGAATTATTAAG
 ACATGACTCTGGTGACCAAGATATCAACGTGGTTTCTACATATATCTCCAAAATGAAAGTATTTATCCA
 GCAGTTGAAGGTCGGATCAAGTTTTCCACAGGAAGTCACTGCCATGGAAGCTTTTCTTTAATATTTCTTT
 CACTTTGGGCAGTGATCTTTGTTTTATACCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232913 representing NM_001204813
 Red=Cloning site Green=Tags(s)

MCPRAARAPATLLLALGAVLWPAAGAWELTILHTNDVHSRLEQTSSESSKCVNASRCMGGVARLFTKVQQ
 IRRRAEPNVLDDAGDQYQGTIWFIVYKGAEVAHFMNALRYDAMALGNHEFDNGVEGLIEPLLKEAKFPIL
 SANIKAKGPLASQISGLYLPYKVLVPGDEVVGI VGYTSKETPFLSNPGTNLVFEDEITALQPEVDKLT
 NVNKIIALGHSGFEMDKLIAQKVRGVDVVVGGHSNTFLYTGNNPSKEVPAGKYPIVTSDDGRKVPVVQA
 YAFGKYLGYLKIEFDERGNVISHGNPILLNSSIPEDPSIKADINKWRIKLDNYSTQELGKTIVYLDGSS
 QSCRFRFCNMGNLICDAMINNNLRHTDEMFWNHVSMCILNGGGIRSPIDERNNGIHVYDL SRKPGDRVV
 KLDVLTCTCRVPSYDPLKMDEVYKVIILPNFLANGGDGFQMIKDELLRHDSGDQDINNVSTYISKMKVIYP
 AVEGRIFSTGSHCHGSFSLIFLSLWAVIFVLYQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001204813
ORF Size:	1572 bp
OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	NM_001204813.1 , NP_001191742.1
RefSeq Size:	3936 bp
RefSeq ORF:	1575 bp
Locus ID:	4907
UniProt ID:	P21589
Cytogenetics:	6q14.3
Protein Families:	ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Metabolic pathways, Nicotinate and nicotinamide metabolism, Purine metabolism, Pyrimidine metabolism
MW:	58.4 kDa
Gene Summary:	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]