

Product datasheet for **SC102434**

PAN3 (AK091307) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAN3 (AK091307) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAN3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC102434 sequence for AK091307 edited (data generated by NextGen Sequencing) ATGAGAAATGATGTCATAGAGGAAGACCTTGCAAAGGAGGTTCAAATGGAAGACTGTTT AGGCTCCTAGCAAAATTGGGAACAATCAATGAGAGGCCGGAGTTTCAGAAGGATCCCACT TGGTCAGAGACTGGAGACCGTTATCTGTTGAAACTCTTTAGGGATCATCTTTTTCATCAG GTGACAGAAGCAGGTGCTCCCTGGATTGACCTCAGTCATATAATTTCTTGTCTTAACAAG CTAGATGCTGGTGTGCCAGAAAAATAAGCCTGATTTCCAGAGATGAGAAGAGTGTACTT GTGGTGACCTACAGTGACTTAAAGCGCTGCTTTGAAAATACTTTCAAGAACTGATTGCA GCTGCAAATGGTCAGTTGTAG Clone variation with respect to AK091307.1 94 g=>a



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5' Read Nucleotide Sequence:	>OriGene 5' read for AK091307 unedited <pre> TTCACATTTGTATACGACTCATATAGGCGGCCGCGAAATTCGCACCAGGTTTGGGTTATC TTGTTTTTTAAATTGCATGTTGGACATCCAAGTAATTCCTCTTTTATCTTGGGTAGGTAT TTGTTGACTGACCAAAACAGGATGCGAAGTGAAATGACATCATGCCATGATTGGTGCT CGATTTTATACTCAATTGGATGCTGCTCAAATGAGAAATGATGTCATAGAGGAAGACCTT GCAAAGGAGGTTCAAAATGGAAGACTGTTTAGGCTCCTAGCAAAATTGGGAACAATCAAT GAGAGGCCGAGTTTCAGAAGGATCCCACTTGGTCAGAGACTGGAGACCGTTATCTGTTG AAACTCTTTAGGGATCATCTTTTTCATCAGGTGACAGAAGCAGGTGCTCCCTGGATTGAC CTCAGTCATATAATTTCTTGCTTAACAAGCTAGATGCTGGTGTGCCAGAAAAAATAAGC CTGATTTCCAGAGATGAGAAGAGTGTAAGTGTGGTGACCTACAGTGACTTAAAGCGCTGC TTTGAAAATACTTTCAAGAACTGATTGCAGCTGCAAAATGGTCAGTTGTAGTATTTGCTA AAAAAGCAGCAGGACATGGCTAAAGACCTTAACCAATAGCAAAATGCACTACAGCTGAA CTTTTCATCATCTCATTACATTTGGGAAACGAACAGGAGATGAGCAAAGCTGCTTGCAC TTCAGTCAGGTACACTGTTACTTGAAGGAAGAATGTTTCACTTACCAAGAGCTATGGC TGCCATTGGAGGCTGTTATCTGTGAAGAATTTATTTAGATTTANGAGCACCATCAGGTG AATGGATGTCCTGCTTTTGTGTTTCCACTTGTATATGCACTAANTTTAATTTNTAAAG ACTTTTCTGATCTTTGAACCTTGCACATTGATACTTACATGGNAACTTGACAGNCATTT TTGAAGCATGCG </pre>
Restriction Sites:	NotI-NotI
ACCN:	AK091307
Insert Size:	3500 bp
OTI Disclaimer:	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).
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:	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:	AK091307.1 , BAC03632.1
RefSeq Size:	3208 bp
RefSeq ORF:	381 bp
Locus ID:	255967
Cytogenetics:	13q12.2
Protein Families:	Druggable Genome

Gene Summary:

Regulatory subunit of the poly(A)-nuclease (PAN) deadenylation complex, one of two cytoplasmic mRNA deadenylases involved in general and miRNA-mediated mRNA turnover. PAN specifically shortens poly(A) tails of RNA and the activity is stimulated by poly(A)-binding protein (PABP). PAN deadenylation is followed by rapid degradation of the shortened mRNA tails by the CCR4-NOT complex. Deadenylated mRNAs are then degraded by two alternative mechanisms, namely exosome-mediated 3'-5' exonucleolytic degradation, or deadenylation-dependent mRNA decapping and subsequent 5'-3' exonucleolytic degradation by XRN1. PAN3 acts as a positive regulator for PAN activity, recruiting the catalytic subunit PAN2 to mRNA via its interaction with RNA and PABP, and to miRNA targets via its interaction with GW182 family proteins.[UniProtKB/Swiss-Prot Function]