

## Product datasheet for SC319535

### PAN2 (NM\_014871) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PAN2 (NM_014871) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAN2
Synonyms:	USP52
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_014871.2  
GAGAAGTGGGAACTGGAATTTCCCGCGAGCTGACAGCGCTTGCCTCCCCCTACTCG  
TTCTAATCCACGCGCTCCAAAATATCCGCCATGGAGAAATCTTGCCAGGATGTCCATT  
CTAGGCCATCGGTGCTGTCTTGCTGAAGGTTGGGTCAGGCATCTAAAGGGACTGTGGTA  
AGGGAGGTGTGACACAGGTGTAAGCTGCCATCGTCATCATGAACTTTGAGGGTCTGGAC  
CCTGGACTGGCAGAAATATGCCCCAGCCATGCATTCTGCCCTGGACCCTGTCTGGATGCC  
CACCTGAACCAAATCTGCTACAGAATGTGGAGCTGGACCCAGAGGGAGTGGCCTGGAG  
GCTCTTCCCGTCCAGGAATCAGTGCACATAATGGAAGGTGTCTACTCTGAATTGCACAGC  
GTGGTGGTGAAGTGGTGTACCTGTTCCGTCTCCACTTTGACTTGCACGAGGAGATG  
CTGTGGTGGGGAGCCACGGGGCCATGCCACTTCAATTTTTGGCCAGCCTTGGAGCC  
TACTCATCTTTCAAGTCAATGGCAGTGTATGATATTCGGCAGATCCAGAGCCTGGAGAAT  
GGTATCTTTTTCTACCAAGAACAACCTCAAGTATATGGCCCGTGGGGCCTCATTATA  
TTTGATTACCTGCTGGATGAGAATGAGGATATGCACAGTCTCCTACTGACTGACAGCAGC  
ACTCTACTCGTTGGTGGGCTGCAGAATCACATACTAGAGATTGATCTTAACACTGTCCAG  
GAGACTCAGAAGTATGCAGTAGAGACGCTGGAGTCAACATCATGAGACAGACAAATCGC  
TTCTTCTTCTGCGGCCACACGCTCTGGCAAGGTTTCCCTGAGAGACCTCCGTACTTTTAAG  
GTGGAACATGAGTTTGTGCCTTCTCAGGAAGTCTGTGCACTTTGATGTGCATGGCAAC  
CTGCTAGCTGCCTGTGGCTTCTCCAGCCGCTCACTGGCCTGGCCTGCGACCGTTTCCTC  
AAGGTGTATGATTTGCGCATGATGCGTGCCATCACACCACTTCAAGTACATGTGGATCCT  
GCCTTCTTGCCTTCAATCCTACATATACTTCTGTCTTGCTATCATCTCTCAGTCAGGG  
CAGTGCCAATTCTGTGAACCCACAGGCCTGGCCAACCCAGCCGATATCTTTCATGTGAAT  
CCTGTGGGCCTCTGCTAATGACATTTGATGTGTGAGCCAGCAAGCAGGCTCTGGCCTTT  
GGGGATTCTGAGGGCTGTGTGCACCTCTGGACTGATCCCGGAGCCTTCTTCAACCCC  
TACTCCCGTGTGACTGAGTTTGTCTTGGCGTGTCTCGTGGACTCACTGCCTCCTCTGGAC  
TGGAGCCAGGACCTGCTGCCTTTCCCTCATCCCTGTCCCACTCACCCTGACACACTT  
CTCTCTGATTGGCCTGCTGCCAACTCTGCTCCAGCTCCAGGCGAGCACCACCGTGGAT  
GCAGAGATTCTGCGCACCATGAAGAAGGTGGGCTTCATTGGCTATGCGCCAATCCCCCG



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ACCAGGCTGCGCAATCAGATACCCTACAGACTCAAGGAGTCAGACAGTGAATTTGACAGC  
 TTCAGCCAGGTCAGTACTGAGTCACCCAGTAGGACGAGAAGAGGAACCACATCTCCACATGGTT  
 TCTAAGAAATACCGAAGGTGACCATCAAATATTTCCAAGCTAGGGCTGGAGGACTTTGAC  
 TTCAAACACTACAATAAGACCTTGTGGCTGGATTAGAGCCCCACATTTCCCAACGCCTAC  
 TGTAACATGCATGATCCAGGTGCTCTATTTCTGGAGCCTGTACGCTGTCTAATTTCAAAC  
 CACCTTTGCCAGAAGGAGTTCTGTCTGGCATGTGAGCTGGGCTTCTGTTCACATGTTG  
 GACCTCTCTCGTGGTGACCTTGGCAGGGCAATAATTTTCTTCGGGCATTCCGTACTATT  
 CCTGAGGCTCAGCCCTCGGTCTAATCCTGGCTGACTCAGATGAGGCCTCAGGCAAGGGC  
 AATCTGGCCAGGCTCATTAGAGGTGGAATCGTTTCACTCAACTGCATCAAGAT  
 ATGCAAGGAGCTGGAAATACCACAGGCTTATCGAGGTGCTGGAGGCAGCAGCTTTTGTCTCA  
 TCGGGGGACTCTGTTATTGGGCAGCTTTCAGCTGTGAGATGGAGAAGTGCAGCCTCTGC  
 CGCTGTGGCAGTGAGACCGTGCAGCCTCATCCACTCTGCTTTTCACTCTCTACCT  
 GATGATAAACTGGGAAGAACTATGACTTTGCTCAGGTGCTGAAGCGAAGCATCTGCCTG  
 GACCAGAATACACAGGCTGGTGTGACACCTGTAAAAGTACCAGCCACGATTCAGACC  
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 GAGGCTGATTTCTGGAGAATGCAGGCTGAGGTTGCCTTCAAGATGGCAGTAAAGAAACAC  
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 CCAGAGGGTGTGCTGGTGTGCCCTCCATTGAGGAGTTGAAGAAGCTCTGGCTTCCCTTC  
 TCCATTGCGATGAAGATGACCAAAAACAAGGGCTGGATGTTGCAATTGGACTGATGGG  
 GATGAGATGCAGTGGGGCCAGCCAGGGCAGAGGAGGAGCATGGTGTCTATGTGTATGAC  
 CTGATGGCTACTGTGGTACACATCTGGACTCACGCACAGGGGGCAGCCTGGTGGCTCAC  
 ATCAAAGTTGGAGAGACCTACCACCAGCGCAAGGAGGGCGTTACTCACCAGCAGTGGTAT  
 CTGTTCAATGACTTTCTATTGAACCTATTGATAAGCATGAAGCTGTGCAATTTGACATG  
 AATTGGAAAGTACCTGCAATCCTTTATTATGTCAAACGGAATCTCAATTCAGATACAAC  
 CTGAACATCAAGAACCCTATTGAGGCAAGTGTCTTGTGCTGAGCCTCGCTGGCACGG  
 AAGCAGCGGAAAACATACTACCTTTATTCCACTGATGCTGAATGAGATGCCACAGATT  
 GGGGACCTGGTGGTCTGGATGCTGAGTTTGTACCCTAATGAGGAGGAAGCAGAGTTA  
 CGCAGTGTGGTACCAAGTCTACCATTAACAAGCCAGATGTCAGTAGCCAGGATTACC  
 TGTGTTCCGGGCCAGGGACCAATGAGGGTATCCCCTTCAATGATGACTACATCTCTACC  
 CAGGAGCAGGTGGTGGATTACTGACTCAATACTCGGGTATAAAGCCTGGTGACCTCGAT  
 GCCAAAATTTCTCCAAGCACCTAACAACCTCAAGTCTACCTACTTAAAGCTTCGTTTT  
 CTCAATTGACATTGGAGTCAAGTTTGTGGTTCATGGCCTGCAGAAGGACTTCCGGGTATC  
 AACCTGATGGTGCCCAAGGACCAAGTCTTACACTGTCTACCTGTTCCATATGCCCCGA  
 AAACGAATGATTTCCCTGCGATTCTTGGCTTGGTACTTTCTGGACCTGAAGATTCAAGGG  
 GAAACCCATGACAGTATTGAGGATGCCCGCACAGCCCTTCAAGCTGTACCGAAAAGTATCTG  
 GAGCTAAGCAAAAATGGCACTGAGCCTGAGTCTTCCACAAGGTGCTCAAGGGTCTTTAT  
 GAGAAGGGCAGAAAAGTGGACTGGAAGGTGCTGAGCCTGAGGGCCAAACAAGTCCCAAG  
 AATGCAGCTGTCTTCTCCTCAGTGTGGCGCTCTGACTACCCTTCCCAAAGAACCACGGC  
 CCTCTCCCTTTACTGTTCTATAGCCCCAGAAGTGGGAGATGGCTTCTCAAGTTGGCTATA  
 CCTTGTCCAATTCAGTACTGGACGTGCTCAGGGTCTAGGGTACAGATGGTGTATTAA  
 TTGAAGTGAACACAGCAGAATTGTTGCAAGGTTCTAGGAGCCAGATTATTCTTCTT  
 CATTCTTTGCAAAAACAGTGGTACAGACATGGAGTCTAGAATTGACCCAGATGGAAGTAA  
 TTGGTATTCTTAATATCCTGGGTGACTAATATCCAGGCAGAGAAGCTCCTGGAACCATAA  
 CTGTAAGTTCTAGCTGGCTAGGGATTGAAGTCTGGACAGTGACAGAGGATACCACAGT  
 AGTTCAAGACTTAGCACAAAGTACCAACTGCTTCCAGGGATACCTGGAGGGCCAGCAAGT  
 AGAGTGTGGTGGCCCAAGCAAACCAAGTGTGCAATACCATTGCCAAAAGGGCCTTTGG  
 ATCCTGGACAAAAGCTTGGCTGCCGGCTTCAATTTATCCTGCTGATGGCTGAGAAGCATCT  
 GTCTTCCATCCCCTTGGCTGTCCCAAGTTTTGTCCATTTTTTAAAAATTTGTTGTAAA  
 CTGCATGTTTTATAAAATAAAAATAAAATATCGTTTTGTTATTTATCTCAAAAAAAAAAAAA  
 AAAAAAAAAA

**Restriction Sites:**

Please inquire

<b>ACCN:</b>	NM_014871
<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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<u><a href="#">NM_014871.2</a></u> , <u><a href="#">NP_055686.2</a></u>
<b>RefSeq Size:</b>	4509 bp
<b>RefSeq ORF:</b>	3597 bp
<b>Locus ID:</b>	9924
<b>UniProt ID:</b>	<u><a href="#">Q504Q3</a></u>
<b>Cytogenetics:</b>	12q13.3
<b>Domains:</b>	UCH
<b>Protein Families:</b>	Protease
<b>Gene Summary:</b>	<p>This gene encodes a deadenylase that functions as the catalytic subunit of the polyadenylate binding protein dependent poly(A) nuclease complex. The encoded protein is a magnesium dependent 3' to 5' exoribonuclease that is involved in the degradation of cytoplasmic mRNAs. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]</p> <p>Transcript Variant: This variant (3) uses an alternate in-frame splice site in the coding region, compared to variant 1. The encoded isoform (3) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>