

Product datasheet for **RG200573**

PAN2 (NM_014871) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAN2 (NM_014871) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PAN2
Synonyms:	USP52
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200573 representing NM_014871 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAC**TTT**GAGGGTCTGGACCCTGGACTGGCAGAATATGCCCCAGCCATGCATTCTGCCCTGGACCCTG
TCTTGGATGCCACCTGAACCCAAATCTGCTACAGAATGTGGAGCTGGACCCAGAGGGAGTGGCCTTGGAG
GGCTCTCCCGTCCAGGAATCAGTGCACATAATGGAAGGTGTCTACTCTGAATTGCACAGCGTGGTGGCT
GAAGTGGGTGTACCTGTTCCGCTCTCCACTTTGACTTGCACGAGGAGATGCTGTGGTGGGGAGCCACG
GGGGCCATGCCACTTCATTTTTGGCCAGCCTTGGAGCGCTACTCATCCTTTCAAGTCAATGGCAGTGA
TGATATTCGGCAGATCCAGAGCCTGGAGAATGGTATCCTTTTTCTCACCAGAACAACCTCAAGTATATG
GCCCGTGGGGCCCTCATTATATTGATTACCTGCTGGATGAGAATGAGGATATGCACAGTCTCCTACTGA
CTGACAGCAGCACTCTACTCGTTGGTGGGCTGCAGAATCACATACTAGAGATTGATCTTAACACTGTCCA
GGAGACTCAGAAGTATGCAGTAGAGACGCCTGGAGTCACCATCATGAGACAGACAAATCGTTCTTCTTC
TGCGGCCACACGTCTGGCAAGGTTCCCTGAGAGACCTCCGACTTTTAAAGTGGAACATGAGTTTGATG
CCTTCTCAGGAAGTCTGTGACACTTTGATGTGCATGGCAACCTGCTAGCTGCCTGTGGCTTCTCCAGCCG
CCTCACTGGCCTGGCCTGCGACCGTTTCTCAAGGTGTATGATTTGCGCATGATGCGTCCATCACACCA
CTTCAAGTACATGTGGATCCTGCCTTCTTGGCTTCAATCCTACATATACTTCTCGTCTTGCTATCATCT
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GAGGGCTGTGTGCACCTCTGGACTGATTCGCCGAGCCTTCTTCAACCCCTACTCCCGTGGAGACTGAGT
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CATCCCTGTCCCACTCACCCTGACACACTTCTCTGATTGGCCTGCTGCCAATCTGCTCCAGCTCCC
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CCAATCCCGCACCAGGCTGCGCAATCAGATACCCTACAGACTCAAGGAGTCAGACAGTGAATTTGACAG
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TACCGCAAGGTGACCATCAAATATTCCAAGCTAGGGCTGGAGGACTTTGACTTCAAACACTACAATAAGA
CCTTGTGGCTGGATTAGAGCCCCACATTTCCCAACGCCTACTGTAAGTGCATGATCCAGGTGCTCTATTT
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CCAGATTACCTGTGTTTCGGGGCCAGGACCCAATGAGGGTATCCCCTTATTGATGACTACATCTCTAC
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TGAGAAGGGCAGAAAGATGGACTGGAAGGTGCCTGAGCCTGAGGGCCAAACAAGTCCAAGAATGCAGCT
GTCTTCTCCTCAGTGTGGCGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200573 representing NM_014871
 Red=Cloning site Green=Tags(s)

MNFEGLDPLAEYAPAMHSALDPVLD AHLNP NLLQNV ELDP EGVALEALPVQESVHIMEGVVSELHSVVA
 EVGVPVSVSHFDLHEEMLWV GSHGGHAT SFFGPALERYSSFQVNGSDDIRQIQSLENGILFLT KNNLKYM
 ARGGLIIFDYLLDENEDMHSLLL TDSSTLLV GGLQNHILEIDLNTVQETQKYAVETPGVTIMRQTNRFFF
 CGHTSGKVSRLRDLRTFKVEHEFD AFSGSLSDFDVHG NLLAACGFS SRLTGLACDRFLK VYDLRMMRAITP
 LQVHVDP AFLRFIPT YTSRLAIISQSGQCQFCEPTGLANPADIFHVN PVGPLLMTFDV SASKQALAFGDS
 EGCVHLW TDSPEPSFN PYSRETEFALPCLVDSL PPLDWSQDLLPLSLIPVPLT TDTLLSDWPAANSAPAP
 RRAPPVDAEILRTMKKVGF IGYAPNPRTRLRNQIPYRLKESDSEFDSFSQVTESPVGREEEPHLMVSKK
 YRKVTIKYSKLGLED FDFKHYNKTLFAGLEPHIPNAYCNCMIQVLYFLEPV RCLIQNHLCQKEFCLACEL
 GFLFHMLDL SRGDPCQGN NFLRAFRTIPEASALGLILADSDEASGKGNL ARLIQRWNRFIL TQLHQDMQE
 LEIPQAYRGAGGSSFCSSGDSVIGQLF SCEMENC SLCRGSETVRASSTLLFTL SYPDDKTGKNYDFAQV
 LKRSICLDQNTQAWCDTCEKYQPTIQTRNIRHLPDILVINCEVNSKEADFWRMQAEVAFKMAVKKHGGE
 ISKNKEFALADWKELGSP EGVLCPSIEELKNVWLPFSIRMKMTKNKGLDVCNWTGDDEM QWGPAREEEE
 HGYYVYDLMATVVHILD SRTGGSLVAHIK VGETYHQ RKEGVTHQQWYLFNDFLIEPIDKHEAVQFDMNWK
 VPAILYYVKNRNLNSRYNL NIKNPIEASVLLAEASLARKQRKTH TTFIPLMLNEMPIQIDLVGLDAEFVTL
 NEEEAELRSDGKSTIKPSQMSVARITCVRGQGPNEGIPFIDDI STQE QVVDYLTQYSGIKPGDLDAKI
 SSKHLTTLKSTYLKLRFLIDIGVKFVGHGLQKDFRVINLMVPKQVLDTVYLFHMPRKRMI SLRFLAWYF
 LDLKIQGETHDSIEDARTALQLYRKYLELSKNGTEPE SFHKV LKGLYEKGRKMDWKVPEPEGQ TSPKNAA
 VFSSVLAL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

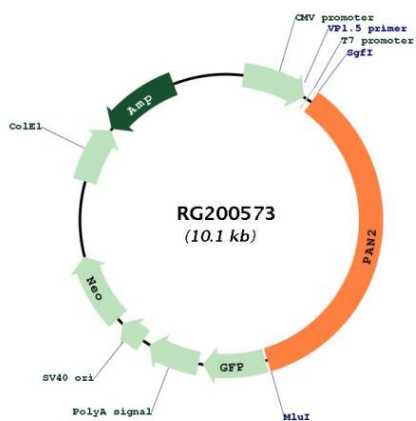


ACCN: NM_014871

ORF Size: 3594 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_014871.2 , NP_055686.2
RefSeq Size:	4509 bp
RefSeq ORF:	3597 bp
Locus ID:	9924
UniProt ID:	Q504Q3
Cytogenetics:	12q13.3
Domains:	UCH
Protein Families:	Protease
Gene Summary:	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]

Product images:



Circular map for RG200573