

Product datasheet for **RR214314**

Pxn (NM_001012147) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pxn (NM_001012147) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pxn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR214314 representing NM_001012147
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGACGACCTCGACGCCCTGCTGGCAGACTTGGAGTCCACCACCTCCCACATCTCCAAACGGCCAGTGT
 TCTTGTACAGAGGAGCCCCCTACTCTACCCAACCTGAAAACACACTTACCAGGAGATTGCAGTGCCACC
 TCCGGTCCCACCGCCCCATCCAGCGAGGCCCTCAATGGCACAGTCTGGACCCCTTAGACCAATGGCAG
 CCTAGTGGTTCCAGATACGCTCACCAGCAGCCTCCATCCCCATCGCCATATACAGCTCCAGCACCACAAA
 ATTCCAGTGCCTCAACCCTCAGGACAGTGTGGCTCCCTTTGTTCCCGAGCAGGCGAGGAGAACACGT
 CTACAGCTTCCCAACAAGCAGAAGTCAGCAGAGCCGTCACCCACCGTGTGAGCTCCTCCCTGGGCAGC
 AACCTCTCTGAGCTGGACCGCTGTTACTGGAGCTGAACGCAGTGCAGCGTAGTCCTTCCGGCTTCTCTG
 CAGGTATGGTGTGAGTCCAGGCCTCTCGTGAAGCTTTGGGTTCTGGGGACGGAGGACGAGCAATCAT
 TTTGTCCCTTTTTTCCAAGATGAAGCAGAATCGAGCCCCCATTGCCCGGTGCCCTGAGTCCCCTTTAT
 GCGTCCCAGAGAGTAACAATCTCTGGGGGCAAGCAGGGCCGCTCATGAAGGAGAAGCCAAAGCGAA
 ACGGAGGCCGGGGCTGGAGGATGTGCGGCCAGTGTGGAGAGCCTTTGGATGAGCTGGAGAACTCTGT
 GCCCAGCCCCGTCCCGCCATCACTGTGAACCAGGGAGAGATGAGCAGTCCACAGCGAGTCACTCCAGC
 CAGCAGCAGACCAGAATCTCAGCCTCCTCTGCCACCAGGGAGCTGGACGAGCTCATGGCTTCATTGTGAG
 ATTTCAAGTTCATGGCCAGGGGAAAACCGGGAGCAGCTCGCCTCCTGGGGGCTCTCAAAACCTGGGAG
 CCAGCTTGACAGCATGTTGGGGAGTCTGCAGTCCGACCTGAACAAGCTAGGGGTGCCACCCTTGCCAAA
 GGGGTTTGTGGAGCTGCAAGAAGCCCATTGCTGGCAGGTGGTACTGCCATGGGAAGACATGGCACC
 CCGAGCCTTTGTGTGCACCCACTGCCAGGAAGAGATTGGATCCCGGAACCTTCTCGAGCGGGACGGACA
 ACCCTACTGTGAAAAGGACTACCACAGCCTCTTCTCCACAGCTGCTACTACTGCAACGGGCCCATCTTG
 GATAAAGTGGTGACAGCGCTGGACCGCAGTGGCACCCGGAACACTTCTTCTGTGCCAGTGTGGAGCCT
 TCTTTGTTCCAGAAGGTTCCACGAGAAAGATGGCAAAGCCTACTGTGGAAGGATTACTTCGACATGTT
 CGCGCCCAAGTGTGGCGCTGTGCCCTGCCATCCTGGAGAACTACATCTCGGCCCTCAACACCCTCTGG
 CACCCTGAATGCTTTGTGTGAGGGAGTCTTACACCCTTCGTCAATGGCAGCTTCTTCGAGCAGCAGC
 GGCAGCCATATTGTGAGGTGCACTACCACGAGCGTCGCGGCTCACTGTGCTCCGGCTGCCAGAAGCCAT
 CACCGGCCGTCATCACCGCATGGCCAAGAAGTTCACCCCGAGCATTTCGTGTGCGCCTTTTGCCTC
 AAGCAGCTCAACAAGGGCACTTCAAGGAGCAGAACGACAAGCCCTACTGTCAGAGCTGCTTCTGAAGC
 TCTTCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214314 representing NM_001012147
 Red=Cloning site Green=Tags(s)

MDDL DALLADLESTTSHISKRPVFLSEPPYSYPTGNHTYQEIAVPPVPPPPSSEALNGTVLDPLDQWQ
 PSGSRYAHQQPPSPSPSIYSSSTKNSSASNPQDSVGLCSRAGEEHHVYSFPNKQKSAEPSPTVMSSSLGS
 NLSELDRLLELNAVQRSPSFGSAGMVSQASREPLGSWGTEGRAIILSPFFQDEAESSPLPGALSPLY
 GVPESNLLGGKAGPLMKEKPKRNGRGLDVRPSVESLLDELENSVPSVPAITVNGEMSSPQRTSS
 QQQTRISASSATRELDLMSLSDFKFMAQKGTGSSSPPGGLSKPGSQLDSMLGSLQSDLNKLGVATVAK
 GVCGACKKPIAGQVVTAMGKTWHPEHFVCTHCQEEIGSRNFFERDGPYCEKDYHSLFSPRCYYCNGPIL
 DKVVTALDRTWHPEHFFCAQCGAFFGPEGFHEKDGKAYCRKDYFDMFAPKCGGCARAI LENYISALNTLW
 HPECFVCRECFTPFVNGSFFEHGQPYCEVHYHERRGSLCSGCQKPIITGRCITAMAKKFHPEHFVCAFL
 KQLNKGTFKEQNDKPYCQSCFLKFLC

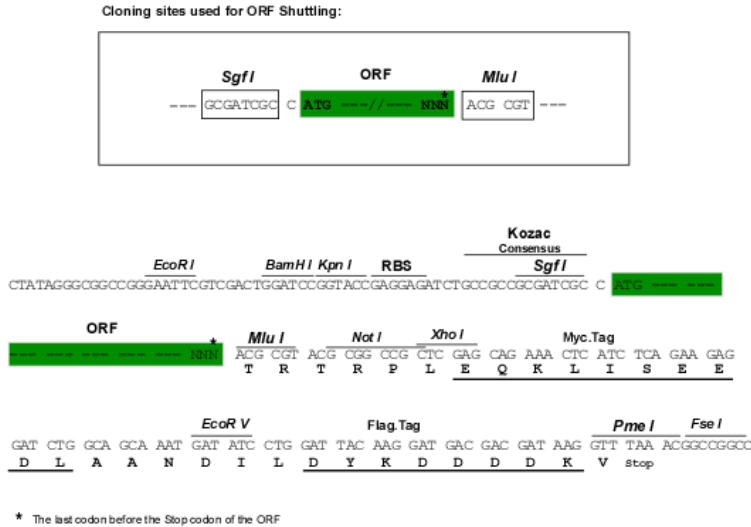
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja2511_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001012147

ORF Size: 1758 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

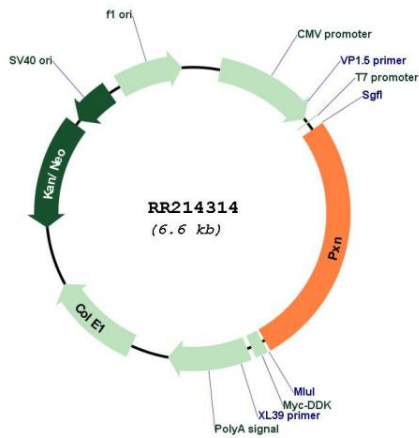
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:
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:	<u>NM_001012147.1, NP_001012147.1</u>
RefSeq Size:	3737 bp
RefSeq ORF:	1761 bp
Locus ID:	360820
UniProt ID:	<u>Q66H76</u>
Cytogenetics:	12q16
MW:	64.5 kDa
Gene Summary:	Cytoskeletal protein involved in actin-membrane attachment at sites of cell adhesion to the extracellular matrix (focal adhesion).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR214314