

Product datasheet for **MG227462**

Pxn (NM_133915) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pxn (NM_133915) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pxn
Synonyms:	AW108311; AW123232; Pax
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227462 representing NM_133915
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGACCTCGATGCCCTGCTGGCAGACTTGGAACTACCACCTCCCACATCTCCAAACGGCCAGTGT
 TCTTGTACAGAGGAGCCCCCTACTCCTACCCAACCTGAAAACACACATACCAGGAGATTGCGGTGCCACC
 TCCGGTCCCACCACCACCGTCCAGCGAGGCCCTCAATGGCACGGTCTTGACCCTTTAGATCAGTGGCAG
 CCTAGTGGTTCCAGATACGCTCACCAGCAGCCTCCGTCCCCACTGCCGTGTACAGCTCCAGTGCTAAAA
 ATTCCAGTGCCTCCAACACCCAGGACGGCGTGGGCTCCCTTTGTTCCCGAGCAGGCGAGGAAGAGCAGT
 CTACAGCTTCCCAACAAGCAGAAGTCGGCAGAGCCCTCACCTACCGTCATGAGCTCCTCCCTGGGCAGC
 AACCTCTCTGAATTGACCGGTGTTACTGGAGCTGACGCAGTGCAGCACAGCCCGCTGGCTTCCCTG
 CAGATGAAGCCGAATCGAGCCCCCTTGCTGGAGCCCTGAGCCCCCTTATGGCATCCAGAAAAATAA
 CACTCCCTTGGGGGGCAAAGCGGGGCCCTGGTAAAAGAGAAGCCAAAGCGAAATGGAGGCCGGGGCTG
 GAGGATGTGCGGCCAGCGTGGAGAGCCTTGGATGAACTGGAGAGTCCGTGCCAGCCCTGTCCCGG
 CCATCACTGTGAACCAGGAGAGATGAGCAGTCCGCAGCGAGTCACTCCAGCCAGCAGCAGACCCGGAT
 CTGCGCTCCTCTGCCACCAGGGAGCTGGACGAGCTCATGGCGTCACTGTGAGATTTCAAGATGCAGGGC
 CTGGAACAGAGAGTGGATGGAGAGCGGCCGTGGGCAGCCAGCTGGCCCCCAGCAGCAGGCGAGCAGCC
 CCGAAGGGCAGGACGAGGGAGGGTTTATGGCCCAGGGGAAAACGGGAGCAGTCACCCCCTGGGGGACT
 CTCCAAGCCCGGAGCCAGCTGGACAGCATGTTGGGGAGTCTGCAGTCCGACCTGAACAAGTAGGGGT
 GCCACCGTTGCCAAAGGGGTCTGTGGAGCCTGCAAGAAGCCATCGCCGGCAGGTGCTGACCCCATGG
 GGAAGCATGGCACCCCGAGCACTTTGTGTGCACCCACTGCCAGGAGGAGATTGGATCCCGAAATTTT
 TGAGCGGGACGGACAGCCCTACTGTGAGAAGGACTACCACAGCCTTCTCCCCACGCTGCTACTACTGC
 AACGGACCATCCTGGATAAAGTGGTGACAGCGCTGGACCGCACATGGCACCCGGAACACTTCTTGTG
 CCCAGTGTGGAGCCTTCTTGGTCCAGAAGGCTTCCACGAGAAGGACGGCAAAGCGTACTGTCGTAAGA
 TTACTTCGACATGTTTGTCCCAAGTGGCGGGCTGCGCCGTGCCATCCTGGAGAACTACATTTAGCC
 CTCAACACCTCTGGCACCCGAATGCTTTGTGTGCAGGGAGTGTTCACACCCTTGTCAACGGCAGT
 TCTTTGAGCAGCAGGGCAGCCGACTGTGAGGTCCACTACCACGAGCGGCGGGCTCGTGTGCTCCGG
 CTGCCAGAAGCCATCACGGGCCGCTGCATCACCGCCATGGCCAAGAAGTCCACCCCGAGCATTTCTGT
 TGCGCCTTTTGCCTGAAGCAGCTCAACAAGGGCACCTTCAAGGAGCAGAACGACAACCCCTACTGCCAGA
 GCTGCTTCGTGAAGCTCTTCTGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG227462 representing NM_133915
 Red=Cloning site Green=Tags(s)

MDDL DALLADLESTTSHISKRPVFLSEPPYSYPTGNHTYQEIAVPPVPPPPSSEALNGTVLDPLDQWQ
 PSGSRYAHQQPPSPLPVYSSSAKNSSASNTQDVGSLCSRAGEEEHVYSFPNKQKSAEPSPTVMSSSLGS
 NLSELDRLLELNAVQHSPPGFPADEAESSPLPGALSPLYGIPENNTPLGGKAGPLVKEKPKRNGGRGL
 EDVRPSVESLLDELESSVPSPVAITVNQEMSSPQRVTSSQQQTRISASSATRELDLMASLSDFKMQG
 LEQRVDGERPWAASWPPSSRQSSPEGQDEGGFMAQGKTGSSSPPGGLSKPGSQLDSMLGSLQSDLNKLGV
 ATVAKGVCGACKPIAGQVVTAMGKTWHPEHFVCTHCQEEIGSRNFFERDGPYCEKDYHSLFSPRCYYC
 NGPILDKVVVTALDRTWHPEHFFCAQCGAFFGPEGFHEKDGKAYCRKDYDFDMFAPKCGGCARAIENYISA
 LNTLWHPECFVCRECFPFVNGSFFEHGQPYCEVHYHERRGSLCSGCQKPIITGRICITAMAKKFHPEHFV
 CAFCLKQLNKGTFKEQNDKPYCQSCFVKLFC

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_133915

ORF Size: 1773 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](#)

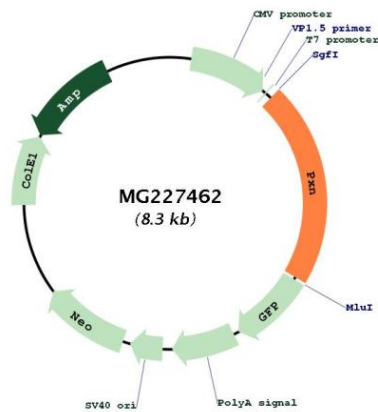
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_133915.3, NP_598676.2</u>
RefSeq Size:	3781 bp
RefSeq ORF:	1776 bp
Locus ID:	19303
UniProt ID:	<u>Q8VI36</u>
Cytogenetics:	5 56.1 cM
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 MG227462