

Product datasheet for **RG234550**

Paxillin (PXN) (NM_001243756) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Paxillin (PXN) (NM_001243756) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Paxillin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234550 representing NM_001243756
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACGACCTCGACGCCCTGCTGGCGGACTTGGAGTCTACCACCTCCCACATCTCCAAACGGCCTGTGT
 TCTTGTGGAGGAGACCCCTACTCATACCCAACCTGAAAACACACATACCAGGAGATTGCCGTGCCACC
 CCCCCTCCCCCACCCTCCAGCGAGGCCCTCAATGGCACAATCCTTGACCCCTTAGACCAGTGGCAG
 CCCAGCAGCTCCCGATTATCCACCAGCAGCCTCAGTCTCATCACCTGTGTACGGCTCCAGTGCCAAAA
 CTTCCAGTGTCTCAACCCTCAGGACAGTGTGGCTCTCCGTGCTCCCGAGTGGGTGAGGAGGAGCAGT
 CTACAGCTTCCCAACAAGCAGAAATCAGCTGAGCCTTCAACCACCGTAATGAGCACGTCCCTGGCAGC
 AACCTTTCTGAAGTGCACCGCTGCTGCTGGAAGTGAACGCTGTACAGCATAACCCGCCAGGCTTCCCTG
 CAGATGAGGCCAACTCAAGCCCCCGCTTCTGGGGCCCTGAGCCCCCTATAGGTGTCCAGAGACTAA
 CAGCCCCCTGGGAGGCAAAGCTGGGCCCTGACGAAAGAGAAGCCTAAGCGGAATGGGGCCGGGGCCTG
 GAGGACGTGCGGCCAGTGTGGAGAGTCTTGGATGAACTGGAGAGCTCCGTGCCAGCCCGTCCCTG
 CCATCACTGTGAACAGGGCGAGATGAGCAGCCCGCAGCGGTACCTCCACCAACAGCAGACACGCAT
 CTGGCCCTCTCTGCCACCAGGGAGCTGGACGAGCTGATGGCTTCGCTGTGCGATTTCAAGGGCTCCTGG
 CCCCTGGAGGAGTTGTACTTCTGTCTCCATCAGCTCATCTGTCCAGGAGGGAGAAAAGTACCCCCATC
 CCTGTGCTGCCAGACACCGTACCCCGAGCCTCAGGAGTCTGACCAGCCCCCTCCGTGTCCACAGTTCAT
 GGCCAGGGGAAGACAGGGAGCAGCTCACCCCTGGGGGGCCCCGAAGCCCGGGAGCCAGCTGGACAGC
 ATGTGGGGAGCCTGCAGTCTGACCTGAACAAGCTGGGGTCCGCACAGTCGCCAAAGGAGTCTGGGGG
 CCTGCAAGAAGCCATCGCCGGGAGTGTGACCCGCAATGGGGAAGACGTGCCACCCCGAGCCTCTCGT
 CTGCACCACTGCCAGGAGGAGATCGGATCCCGAACTTCTTCGAGCGGGATGGACAGCCCTACTGTGAA
 AAGGACTACCACAACCTTCTCTCCCGCTGCTACTACTGCAACGGCCCCATCTGGATAAAGTGGTGA
 CAGCCCTTGACCGGACGTGGCACCCTGAACACTTCTTCTGTGCACAGTGTGGAGCCTTCTTGTCCCGA
 AGGGTTCCACGAGAAGGACGGCAAGGCCTACTGTGCAAGGACTACTTCGACATGTTGACCCCAAGTGT
 GGCGGCTGCGCCCGGCCATCCTGGAGAACTATCTCAGCCCTCAACACGCTGTGGCATCTGAGTGT
 TTGTGTCCGGGAATGCTTACGCCATTCGTGAACGGCAGCTTCTTCGAGCAGCAGGGCAGCCCTACTG
 TGAGGTGCACTACCAGAGCGGGCGGCTCGCTGTGTTCTGGCTGCCAGAAGCCATCACCGCCGCTGC
 ATCACCGCATGGCCAAGAAGTCCACCCCGAGCACTTCGTCTGTGCCTTCTGCCTCAAGCAGCTCAACA
 AGGGCACCTTCAAGGAGCAGAACGACAAGCCTTACTGTGCAAGTCTTCTCAAGCTCTTCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234550 representing NM_001243756
 Red=Cloning site Green=Tags(s)

MDDL DALLADLESTTSHISKRPVFLSEETPYSYPTGNHTYQEIAVPPPVPSPSSEALNGTILDPLDQWQ
 PSSSRF IHQQPQSSSPVYGSSAKTSSVSNPQDSVGSPPSRVGEHVVYFSPNKQKSAEPSPTVMSTSLGS
 NLSELDRLLELNAVQHNPPGFPADEANSSPPLPGALSPLYGVPE TNSPLGGKAGPLTKEKPKRNGRGL
 EDVRPVSVELLDELESSVPVPAITVNQEMSSPQRVTSTQQQTRISASSATRELD MASL SDFKGSW
 PLEEVLLVSISSVQEGEKYPHPCAARHRTPSLRSPDQPPPCPFMAQKGTSSSPPGGPPKPGSQLDS
 MLGSLQSDLNKLG VATVAKGVCGACKKPIAGQVVTAMGKTWHPEHFVCTHCQEEIGSRNFFERDGPYCE
 KDYHNLFSPRCYCNGPILDKVVTALDRTWHPHFCAQCGAFFGPEGFHEKDGKAYCRKDYFDMFAPKC
 GGCARAILENYISALNTLWHPECFVCRECFTPFVNGSFFEHDGQPYCEVHYHERRGSLCSGCQKPI TGRC
 ITAMAKKFHPEHFVCAFCLKQLNKGTFKEQNDKPYCQNCFLKLC

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001243756

ORF Size: 1815 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:

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_001243756.1](#), [NP_001230685.1](#)

RefSeq Size: 3835 bp

RefSeq ORF: 1818 bp

Locus ID: 5829

UniProt ID: [P49023](#)

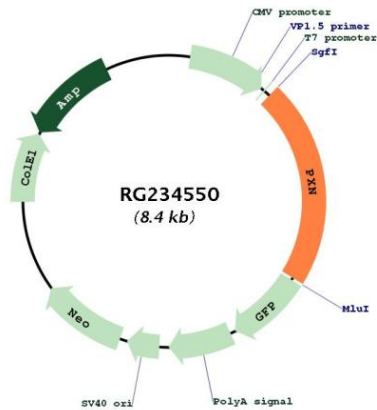
Cytogenetics: 12q24.23

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Chemokine signaling pathway, Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton, VEGF signaling pathway

Gene Summary: This gene encodes a cytoskeletal protein involved in actin-membrane attachment at sites of cell adhesion to the extracellular matrix (focal adhesion). Alternatively spliced transcript variants encoding different isoforms have been described for this gene. These isoforms exhibit different expression pattern, and have different biochemical, as well as physiological properties (PMID:9054445). [provided by RefSeq, Aug 2011]

Product images:



Circular map for RG234550