

## Product datasheet for **RG225997**

### Paxillin (PXN) (NM\_001080855) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Paxillin (PXN) (NM_001080855) 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:**

>RG225997 representing NM\_001080855  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGACGACCTCGACGCCCTGCTGGCGGACTTGGAGTCTACCACCTCCCACATCTCCAAACGGCCTGTGT  
 TCTTGTGCGGAGGAGACCCCTACTCATACCCAACCTGGAACCACACATACCAGGAGATTGCCGTGCCACC  
 CCCCCTCCCCCACCCTCCAGCGAGGCCCTCAATGGCACAATCCTTGACCCCTTAGACCAGTGGCAG  
 CCCAGCAGCTCCCGATTATCCACCAGCAGCCTCAGTCTCATCACCTGTGTACGGCTCCAGTGCCAAAA  
 CTTCCAGTGTCTCAACCCTCAGGACAGTGTGGCTCTCCGTGCTCCCGAGTGGGTGAGGAGGAGCAGT  
 CTACAGCTTCCCAACAAGCAGAAATCAGCTGAGCCTTCAACCACCGTAATGAGCACGTCCCTGGCAGC  
 AACCTTTCTGAACCTGACCGCCTGCTGCTGGAACCTGACGCTGTACAGCATAACCCGCCAGGCTTCCCTG  
 CAGATGAGGCCAACTCAAGCCCCCGCTTCTGGGGCCCTGAGCCCCCTATGGTGTCCAGAGACTAA  
 CAGCCCCCTGGGAGGCAAAGCTGGGCCCTGACGAAAGAGAAGCCTAAGCGGAATGGGGCCGGGGCCTG  
 GAGGACGTGCGGCCAGTGTGGAGAGTCTTGGATGAACTGGAGAGCTCCGTGCCAGCCCGTCCCTG  
 CCATCACTGTGAACCAGGGCGAGATGAGCAGCCCGCAGCGCTCACCTCCACCAACAGCAGACACGCAT  
 CTGCGCCTCCTCTGCCACCAGGGAGCTGGACGAGCTGATGGCTTCCGTGTGCGATTTCAAGATCCAGGGC  
 CTGGAGCAAAGAGCGGATGGGGAGCGGTGCTGGGCGGCCGGTGGCTCGGGACGGCGGGCGGAGCAGCC  
 CCGGAGGGCAGGACGAGGGAGGGTTTATGGCCAGGGGAAGACAGGGAGCAGCTCACCCCTGGGGGGCC  
 CCCGAAGCCGGGAGCCAGCTGGACAGCATGCTGGGGAGCCTGCAGTCTGACCTGAACAAGCTGGGGTGC  
 GCCACAGTCGCCAAAGGAGTCTCGGGGCTGCAAGAAGCCATCGCCGGCAGGTTGTGACCCCATGG  
 GGAAGAGTGGCACCCCGAGCACTTCTGCTGACCCACTGCCAGGAGGAGATCGGATCCCGGAATCTT  
 CGAGCGGATGGACAGCCCTACTGTGAAAAGACTACCACAACCTTCTCCCGCGCTGCTACTACTGC  
 AACGGCCCATCCTGGATAAAGTGGTGACAGCCCTTGACCGGACGTGGCACCCCTGAACACTTCTTCTGTG  
 CACAGTGTGGAGCCTTCTTGGTCCCGAAGGGTCCACGAGAAGGACGGCAAGGCCTACTGTCGAAAGGA  
 CTACTTCGACATGTTTCGACCCAAAGTGTGGCGGCTGCGCCGGGCCATCCTGGAGAACTATATCTCAGCC  
 CTCAACACGCTGTGGCATCCTGAGTGTGTTGTGTGCCGGGAATGCTTACGCCATTCTGTAACGGCAGCT  
 TCTTCGAGCAGCAGGGCAGCCCTACTGTGAGGTGCACTACCACGAGCGGCGCGGCTCGTGTGTTCTGG  
 CTGCCAGAAGCCATCACCGCCGCTGCATCACCGCCATGGCCAAGAAGTCCACCCGAGCACTTCGTC  
 TGTGCCTTCTGCCTCAAGCAGCTCAACAAGGGCACCTTCAAGGAGCAGAACGACAAGCCTTACTGTCAGA  
 ACTGCTTCTCAAGCTTCTCTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG225997 representing NM\_001080855  
 Red=Cloning site Green=Tags(s)

MDDL DALLADLESTTSHISKRPVFLSEETPYSYPTGNHTYQEIAVPPPVPSPSSEALNGTILDPLDQWQ  
 PSSSRF IHQQPQSSSPVYGSSAKTSSVSNPQDSVGSPPSRVGEHVSFPNKQKSAEPSPTVMSTSLGS  
 NLSELDRLLELNAVQHNPPGFPADEANSSPPLPGALSPLYGVPE TNSPLGGKAGPLTKEKPKRNGRGL  
 EDVRPVSLESLLELESSVPVPAITVNQEMSSPQRVTSTQQQTRISASSATRELD MASLSDFKIQG  
 LEQRADGERCWAAGWPRDGGRSSPGQDEGGFMAQKGTGSSSPPGGPPKPGSQLDSMLGSLQSDLNKLG  
 V ATVAKGVCGACKPIAGQVVTAMGKTWHPHFVCTHCQEEIGSRNFFERDQGPYCEKDYHNLFSRCPYYC  
 NGPILDKVV TALDRTWHPHFCAQCGAFFGPEGFHEKDGKAYCRKDYDFDMFAPKCGGCARAIENYISA  
 LNTLWHP ECFVCRECFTPFVNGSFFEHDGQPYCEVHYHERRGSLCSGQKPIITGR CITAMAKKFHPEHFV  
 CAFCLKQLNKGT FKEQNDKPYCQNCFLKLF C

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_001080855

ORF Size: 1773 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\\_001080855.3](#)

RefSeq Size: 3788 bp

RefSeq ORF: 1776 bp

Locus ID: 5829

UniProt ID: [P49023](#)

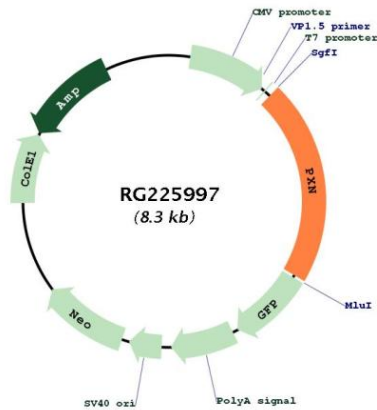
Cytogenetics: 12q24.23

**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 RG225997