

## Product datasheet for **RG207926**

### **PASD5 (NPAS1) (NM\_002517) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PASD5 (NPAS1) (NM_002517) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PASD5
Synonyms:	bHLHe11; MOP5; PASD5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG207926 representing NM\_002517  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCGGCCCCCTATCCCGCAGTGGCGCGGAAGCGAGGTCAAATGCGTGGGAGCCGCGGCCAGCG  
 TCCCTGGGACTTCTACCCGGGCTGATGGTCAAGGCGCCGTCGGACCGTGCCTGCAGGCGCAGCGCAA  
 GGAGAAGTCCCGAACGCGGCGCGCTCGCGGCGCGGAAGGAGAACCTGGAGTTCTTCGAGCTGGCCAAG  
 CTTCTCCCGCTGCCCGCGCCATCTCCAGCCAGCTGGACAAGGCTTCCATCGTGCCTCAGCGTCACT  
 ACCTCCGCTGCGCCGGTTCGCCGCGTGGGGCGCCGCTGGGGCTGAGAGCCGCGGGGCCCGCAGC  
 TGGCTCGCCCCAGGCCGCGGCCCGCAGCGCTGGTCTCGAAGTCTTCGAGCAGCACCTGGGAGGT  
 CACATCTGCAGTCCCTGGATGGCTTTGTGTTGCGCTTGAACCAGGAAGGAAAATTCCTCTACATCTCAG  
 AGACAGTCTCCATCTATCTGGTCTCTCACAGGTGGAGATGACGGGCAGCAGCGTCTTCGACTACATTCA  
 CCCTGGGACCCTCAGAGGTGCTGGAGCAACTGGGGCTGCGGACGCCGACGCCCGGCCCCCAACCCCG  
 CCCTCCGTCTCCTCTTCTCCTCTTCTCTTCTCGCTTGAGATACCCCGAGATCGAGGCCAGCCTCA  
 CCAAGGTGCCCCCTCCTCCCTGGTCCAGGAGCGCTCCTTCTTTGTCCGATGAAATCCACGCTCACAA  
 GAGGGGCTGCACGTCAGGCTCAGGGTACAAGGTATCCACGCTGACTGGGCGCCTTCGGGCCACGCC  
 CTGGGCTTGTGGCCCTCGGGCACACGTTGCCCGGCCCGCCCTGGCTGAGCTGCCACTCCATGGACACA  
 TGATCGTCTTCCGTCTCAGCCTGGTCTCACCATCCTTGCTTGTGAGAGCAGAGTCAAGCACACATGGA  
 CCTGGGGCCCTCAGAGCTGGTGGCCGACGCTGCTACCAGTTTGTCCACGGACAGGACGCCACGAGGATC  
 CGCCAGAGCCACGTGGACTTGTGGACAAGGTCAGGTGATGACTGGTTACTACCGTTGGCTGCAGCGTG  
 CGGGGGCTTGTGTTGGCTGAGTCTGTGGCCACAGTGGTGGGAGCGGGAAGAGCCCGGGGACCA  
 TGTGCTTTGGGTACGCCAGTGTCTCAGCCAAGCGAGGTTGGCCAACTCCTTTGGATGCCTTCCAGCTT  
 CCAGCCAGCGTGGCTGTGAGGAGCATCCAGCCCGGGCCAGAGCCACAGAGCCGAGCCTCCGACGG  
 AAGGGAAGCAGGCTGCCCGAGGAGAAGCAGGCCCCCAGACCCAGGGCAAACGCATCAAAGTGGAGCC  
 CGGCCCGAGGAAACCAAGGCTCCGAGGACAGTGGCGACGAGGATCCCTCCAGCCACCCGGCCACACCG  
 AGGCCCGAGTTACCTCTGTATCCGGCAGGGTCTGAAGCAGGATCCGGTGCAGGCTGGGGCTGG  
 CGCTCCCGGGGACCCCGCCACCCTCTGCACGCGGGCTTCTGCCCGCGTGGTGCAGGGCTGTG  
 CACACCCGGCACCATCCGCTACGGCCCCGCGAGCTGGGCTGGTGTACCCGCACCTGCAGAGGCTGGGT  
 CCGGGCCCGCGCTCCCGGAGGCTTTTACCCGCCCTGGGCTGCCCTACCCGGGGCCCGGGCACCA  
 GGCTGCCCGGAAGGGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG207926 representing NM\_002517  
 Red=Cloning site Green=Tags(s)

MAAPYPGSGGGSEVKCVGGRGASVPWDFLPGLMVKAPSGPCLQAQRKEKSRNAARSRRGKENLEFFELAK  
 LLPLPGAISSQLDKASIVRLSVTYLRLRRFAALGAPPWGLRAAGPPAGLAPGRRGPAALVSEVFEQHLGG  
 HILQSLDGFVFALNQEKGFLYISETVSIYGLSQVEMTGSSVFDYIHPGDHSEVLEQLGLRTPTPGPPTP  
 PSVSSSSSSSLADTPEIEASLTKVPPSSLVQERSFFVRMKSTLTKRGLHVKASGYKVIHVTGRLRAHA  
 LGLVALGHTLPPAPLAELPLHGMIIVFRLSLGLTILACESRVSDHMDLGPSELVGRSCYQFVHGQDTRI  
 RQSHVDLLDKGQVMTGYRWLQRAGGFVWLQSVATVAGSGKSPGEHHVLWVSHVLSQAEGGQTPLDAFQL  
 PASVACEEASSPGPEPTEPEPTEGKQAAPAEAPQTQKRIKVEPGPRETKGSEDSGDEDPSSHPATP  
 RPEFTSVIRAGVLKQDPVRPWGLAPPGDPPPTLLHAGFLPPVVRGLCTPGTIRYGPAELGLVYPHLQRLG  
 PGPALPEAFYPPPLGLPYGPAGTRLPKGD

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_002517

ORF Size: 1770 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\\_002517.4](#)

RefSeq Size: 2066 bp

RefSeq ORF: 1773 bp

Locus ID: 4861

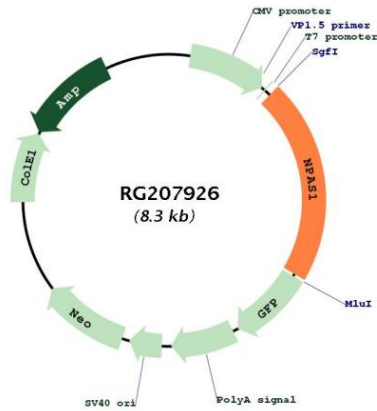
UniProt ID: [Q99742](#)

Cytogenetics: 19q13.32

**Protein Families:** Druggable Genome, Transcription Factors

**Gene Summary:** The protein encoded by this gene is a member of the basic helix-loop-helix (bHLH)-PAS family of transcription factors. Studies of a related mouse gene suggest that it functions in neurons. The exact function of this gene is unclear, but it may play protective or modulatory roles during late embryogenesis and postnatal development. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG207926