

Product datasheet for **RG207096**

Pescadillo (PES1) (NM_014303) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Pescadillo
Synonyms:	NOP7; PES
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG207096 representing NM_014303
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGAGGCCCTTGAGAAGAAGAAGTATGAACGAGGCTCGGCCACCAACTACATACCCGGAACAAAGCCC
 GGAAGAAGCTCCAGCTGAGCTTGGCTGACTTTAGGCGGCTGTGCATTCTGAAGGGCATTATCCCCATGA
 ACCCAAACACAAGAAGAAGGTTAACAAGGGTTTACACGAGCCCGAACGTTTTACCTTATCAAAGACATC
 AGGTTTCTCCTCCACGAACCCATTGTCAACAAGTTCGTGAATACAAGGTGTTCTGTCGGGAAGCTCCGGA
 AGGCTTATGGGAAGAGCGAGTGAACACTGTAGAGCGTTTAAAGGACAATAAGCCCAACTACAACTCGA
 CCACATCATCAAGGAACGGTATCCCAAGTTCATCGATGCCCTGCGGGACCTGGACGATGCCCTCTCCATG
 TGCTTCTGTTTTCCACCTTCCCGGAGTGGCAAGTGCCACGTGCAGACCATTCAGCTGTGCCCGCGGC
 TCACTGTGGAGTTCATGCACTACATTATCGCTGCCCTGCCAAGGTCTTCTGTCCATCAAAGG
 CATTACTACCAGGCCGAGTACTGGGCGAGCCATCGTGTGGATCACTCCCTATGCCTTCTCCATGAC
 CACCCGACAGCTGGACTACAGGGTCATGGCCACCTTACCGAGTTCTACACCACGCTGCTGGGCTTTG
 TCAACTTCCGCTTTTACAGTTGCTCAACCTCCACTATCCCCGAAGCTCGAGGGTCAAGGCCAAGCAGA
 GGCAAGGCCGGTGAGGCGACCTACGCGTTGGACTCCGAGAGTTGTATGGAGAACTGGCAGCCCTCAGT
 GCCAGCCTGGCCCGCGTGGTGGCTGCCACAGAGGAGGAGGCCGAGGTGGATGAGTTTCCACCGATG
 GGGAGATGTACGCGCAGGAGGAAGACCGCAGGAAGGAGCTGGAGGCGCAGGAGAAGCACAAGAAGCTTTT
 TGAGGGCCTGAAGTTCTTCTGAACCGAGAGGTGCCCGTGAGGCCCTGGCCTTCATCATCAGGAGTTTT
 GGTGGGAAGTGTCTGGGACAAATCTTTGTGCATTGGGGCCACCTATGACGTCACAGACTCCCGCATCA
 CCCATCAGATTGTCGACCGCCTGGGCGAGAGCTCAGTCACTGGCAGGTGCTACGTGCAGCCCCAGTG
 GGTGTTTGACTCAGTGAACGCCAGGCTCCTTCTCCCGTGCGAGAGTACTTCTCTGGGTGCAGTGCCC
 CCACACCTTTCACCTTTGTGACCGAGAAGGAAGGAGATTACGTTCCACCTGAGAAGCTGAAGCTGCTGG
 CTCTGCAGCGGGGAGAGGACCCAGGAACTGAATGAGTCAGAAGAGGAGGAGAAGAGGACGACAACAA
 CGAAGGTGATGGTATGAAGAGGGAGAAAAATGAGGAGGAGGAGAAGATGCAGAGGCTGGTTCAGAAAAG
 GAGGAAGAGGCCCGCTGGCAGCCCTGGAAGAGCAGAGGATGGAGGGGAAGAAGCCAGGGTGATGGCAG
 GCACCTTGAAGCTGGAGGATAAGCAGCGGCTGGCCAGGAGGAGAGAGTGAGGCCAAGCGCTGGCCAT
 TATGATGATGAAGAAGCGGGAGAAGTACCTGTACCAGAAGATCATGTTTGGCAAGAGGCGAAAAATCCGA
 GAGGCCAACAAGCTGGCGGAGAAGCGAAAGCCACGATGAGGCGGTGAGGTCTGAGAAGAAGGCCAAGA
 AGGCAAGGCCGGAG

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207096 representing NM_014303
 Red=Cloning site Green=Tags(s)

MGGLEKKKYERGSATNYITRNKARKKLQLSLADFRRLCILKGIYPHEPKHKKKVKNKGSTAARTFYLIKDI
 RFLLEPIVKNKFREYKVFVRKLKAYGKSEWNTVERLKNPNYKLDHIKERYPTFIDALRDLDDALSM
 CFLFSTFPRTGKCHVQTIQLCRRLTVEFMHYIIAARLRKVFLSIKGIYYQAEVLGQPIVWITPYAFSHD
 HPTDVEDYRVMTATFEFYTTLLGFVNFRLYQLNLHYPPKLEGQAQAEAKAGEGTALDSESCMEKLAALS
 ASLARVVVPATEEEAEVDFPTDGEMSAQEEDRRKELEAQEKHKLFELKFFLNREVPREALAFIIRSF
 GGEVSWDKSLCIGATYDVTDRIHQIVDRPGQTSVIGRCYVQPQWVFDVSNARLLLPAVEYFSGVQLP
 PHLSPFVTEKEGDYVPPEKLKLLALQRGEDPGLNESEEEEEEDDNEGDGDEEENEEEDAEAGSEK
 EEEARLAALQEEQRMGKKPRVMAGTLKLEDKQLAQEEEESEAKRLAIMMMKKREKYLQKIMFGKRRKIR
 EANKLAEKRAHDEAVRSEKKAKKARPE

SGPTRRRLE - GFP Tag - V

Restriction Sites: Sgfl-RsrII

Cloning Scheme:



ACCN: NM_014303

ORF Size: 1764 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.

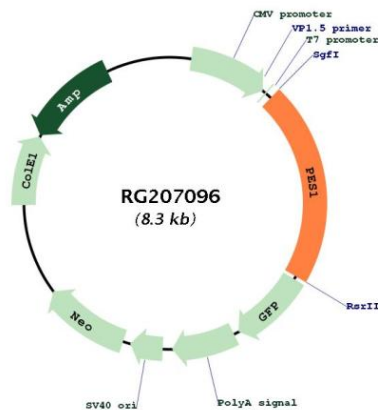
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_014303.4](#)

RefSeq Size:	2279 bp
RefSeq ORF:	1767 bp
Locus ID:	23481
UniProt ID:	O00541
Cytogenetics:	22q12.2
Domains:	BRCT

Gene Summary: This gene encodes a nuclear protein that contains a breast cancer associated gene 1 (BRCA1) C-terminal interaction domain. The encoded protein interacts with BOP1 and WDR12 to form the PeBoW complex, which plays a critical role in cell proliferation via pre-rRNA processing and 60S ribosomal subunit maturation. Expression of this gene may play an important role in breast cancer proliferation and tumorigenicity. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. Pseudogenes of this gene are located on the long arm of chromosome 4 and the short arm of chromosome 9. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RG207096