

Product datasheet for **RG234489**

Pescadillo (PES1) (NM_001243225) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pescadillo (PES1) (NM_001243225) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pescadillo
Synonyms:	NOP7; PES
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234489 representing NM_001243225
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGGGAGGCCTTGAGAAGAAGAAGTATGAACGAGGCTCGGCCACCAACTACATCACCCGGAACAAAGCCC
 GGAAGAAGCTCCAGCTGAGCTTGCTGACTTTAGGCGGCTGTGCATTCTGAAGGGCATTATCCCCATGA
 ACCCAAACACAAGAAGAAGGTTAACAAGGTTCTACAGCAGCCGAACGTTTTACCTTATCAAAGACATC
 AGGTTTCTCTCCACGAACCCATTGTCAACAAGTTCGTGAATACAAGGTGTTCTGTCGGGAAGCTCCGGA
 AGGCTTATGGGAAGAGCGAGTGAACACTGTAGAGCGTTAAAGGACAATAAGCCCAACTACAACTCGA
 CCACATCATCAAGGAACGGTATCCACGTTTCATCGATGCCCTGCGGGACCTGGACGATGCCCTCTCCATG
 TGCTTCTGTTTTCCACCTTCCGCGGACTGGCAAGTGCCACGTGCAGACCATTAGCTGTGCCGCCGGC
 TCACTGTGGAGTTCATGCACTACATTATCGCTGCCCGTGCCTGCGCAAGGTCTTCTGTCCATCAAAGG
 CATTTACTACCAGGCCGAGGTACTGGGGCAGCCATCGTGTGGTCACTCCCTATGCCTTCTCCCATGAC
 CACCCGACAGACGTGGACTACAGGGTATGGCCACCTTACCGAGTTCTACACCAGCTGCTGGGCTTTG
 TCAACTTCCGCCTTTACAGTTGCTCAACCTCCACTATCCCCGAAGCTCGAGGGTCAGGCCCAAGCAGA
 GGCAAAGGCCGGTGAGGGCACCTACGCTTGGACTCCGAGAGTTGTATGGAGAACTGGCAGCCCTCAGT
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 CTTCTGAACCGAGAGGTGCCCGTGAGGCCCTGGCCTTCATCATCAGGAGTTTGGTGGGAAGTGTC
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 GAACGCCAGGCTCCTTCTCCCGTGAGCAGTACTTCTCTGGGGTGCAGCTGCCCCACACCTTTCACCC
 TTTGTGACCGAGAAGGAAGGAGATTACGTTCCACCTGAGAAGCTGAAGCTGCTGGCTCTGCAGCGGGAG
 AGGACCCAGGAACCTGAATGAGTCAGAAGAGGAGGAGGAAGAGGACGACAACAACGAAGGTGATGGTGA
 TGAAGAGGGAGAAAATGAGGAGGAGGAGGAAGATGCAGAGGCTGGTTAGAAAAGGAGGAAGAGGCCCG
 CTGGCAGCCCTGGAAGAGCAGAGGATGGAGGGGAAGAAGCCAGGGTATGGCAGGCACCTTGAAGCTGG
 AGGATAAGCAGCGCTGGCCAGGAGGAGGAGTGAAGCCAAGCGCTGGCCATTATGATGATGAAGAA
 GCGGGAGAAGTACCTGTACCAGAAGATCATGTTTGGCAAGAGGCGAAAAATCCGAGAGGCCAACAAGCTG
 GCGGAGAAGCGAAAGCCACGATGAGGCGGTGAGGTCTGAGAAGAAGGCCAAGAAGGCAAGGCCGAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234489 representing NM_001243225
 Red=Cloning site Green=Tags(s)

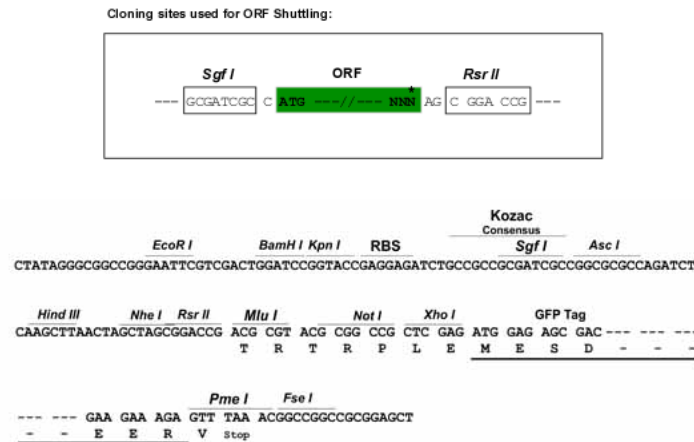
MGGLEKKKYERGSATNYITRNKARKKLQLSLADFRRLCILKGIYPHEPKHKKVKNKGSTAARTFYLIKDI
 RFLLHEPIVNFREYKVFVRKLKAYGKSEWNTVERLKDKNPNYKLDHIKERYPTFIDALRDLDALSM
 CFLFSTFPRTGKCHVQTIQLCRRLTVEFMHYIIAARALRKVFLSIKGIYYQAEVLGQPIVWITPYAFSHD
 HPTDVIDYRVMTFTEFYTTLLGFVNRLYQLNLHYPPKLEGQAQAEAKAGEGTYALDSESCMEKLAALS
 ASLARVVVPATEEEAEVDEFPTDGEEDRRKELEAQEKHKLFEGLKFFLNREVPREALAFIIRSFGEVS
 WDKSLCIGATYDVTDSTRITHQIVDRPGQTSVIGRCYVQPQWVDSVNARLLLPVAEYFSGVQLPPLSP
 FVTEKEGDYVPPEKLKLLALQRGDPGNLNESEEEEEEDDNEGDGDEEGENEEDAEAGSEKEEEAR
 LAALEEQRMEGKKPRVMAGTLKLEDKQRLAQEEEESEAKRLAIMMMKKREKYLQKIMFGKRRKIREANKL
 AEKRKAHDEAVRSEKKAKKARPE

SGPTRRRLE – GFP Tag – V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: NM_001243225

ORF Size: 1749 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_001243225.2](#)

RefSeq Size: 2297 bp

RefSeq ORF: 1752 bp

Locus ID: 23481

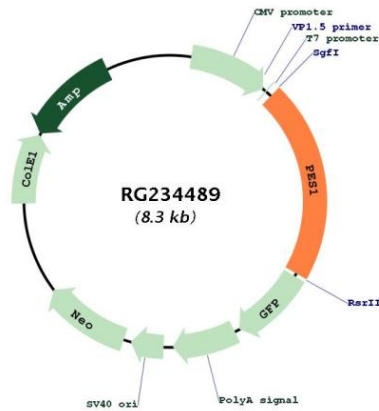
UniProt ID: [O00541](#)

Cytogenetics: 22q12.2

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 RG234489