

Product datasheet for **RG204186**

PEDF (SERPINF1) (NM_002615) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEDF (SERPINF1) (NM_002615) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PEDF
Synonyms:	EPC-1; OI6; OI12; PEDF; PIG35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204186 representing NM_002615 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGCAGGCCCTGGTGCTACTCCTCTGCATTGGAGCCCTCCTCGGGCACAGCAGCTGCCAGAACCCCTGCCA
 GGGGGGGAGGAGGGCTCCCCAGACCCGACAGCACAGGGGCGCTGGTGGAGGAGGAGGATCCTTTCTT
 CAAAGTCCCCGTGAACAAGCTGGCAGCGGCTGTCTCAACTTCGGCTATGACCTGTACCGGGTGCATCC
 AGCATGAGCCCCACGACCAACGTGCTCCTGTCTCCTCTCAGTGTGGCCACGGCCCTCTCGGCCCTCTCGC
 TGGGAGCGGAGCAGCGAACAGAATCCATCATTACCGGGCTCTCTACTATGACTTGATCAGCAGCCGAGA
 CATCCATGGTACCTATAAGGAGCTCCTTGACACGGTCACTGCCCGCCAGAAGAACCCTCAAGAGTGCCTCC
 CGGATCGTCTTTGAGAAGAAGCTGCGCATAAAAATCCAGCTTTGTGGCACCTCTGGAAAAGTCATATGGGA
 CCAGGCCCAGAGTCTGACGGGCAACCCTCGCTTGGACCTGCAAGAGATCAACAACCTGGGTGCAGGCGCA
 GATGAAAGGGAAGCTCGCCAGGTCCACAAAGGAAATCCCGATGAGATCAGCATTCTCCTTCTCGGTGTG
 GCGCACTTCAAGGGGAGTGGGTAAAGTTTGAATCCAGAAAGACTTCCCTCGAGGATTTCTACTTGG
 ATGAAGAGAGGACCGTGAGGGTCCCCATGATGTCGGACCTAAGGCTGTTTTACGCTATGGCTTGGATT
 AGATCTCAGCTGCAAGATTGCCAGCTGCCCTTGACCGGAAGCATGAGTATCATCTTCTCTGCCCCGTG
 AAAGTGACCCAGAATTTGACCTTGATAGAGGAGAGCCCTCACCTCCGAGTTCATTATGACATAGACCGGAG
 AACTGAAGACCGTGACGCGGTCTCACTGTCCCAAGCTGAAGCTGAGTTACGAAGGCGAAGTCACCAA
 GTCCCTGCAGGAGATGAAGCTGCAATCCTTGTTTGATTACCAAGACTTTAGCAAGATCACAGGCAAAACC
 ATCAAGCTGACTCAGGTGGAACACCGGGCTGGCTTTGAGTGGAACGAGGATGGGGCGGGAACACCCCCA
 GCCCAGGGCTGCAGCCTGCCACCTCACCTTCCCGCTGGACTATCACCTTAACGACCTTTCATCTTCGT
 ACTGAGGGACACAGACACAGGGGCCCTTCTCTTATTGGCAAGATTCTGGACCCAGGGGCC

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG204186 representing NM_002615
 Red=Cloning site Green=Tags(s)

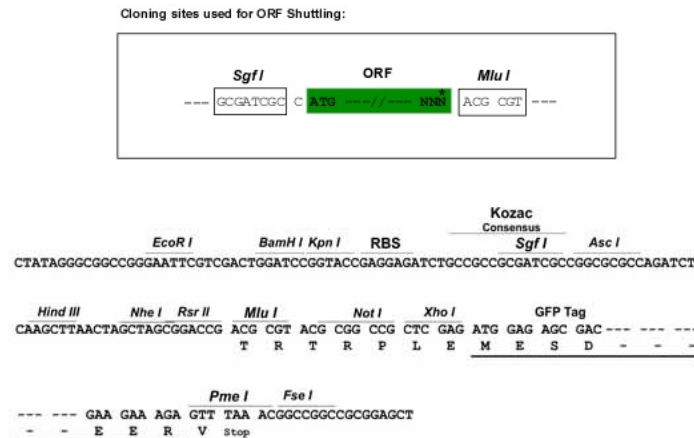
MQALVLLLCIGALLGHSSCQNPASPPEEGSPDPDSTGALVEEEDPFFKVPVNKLAAAVSNFGYDL YRVRS
 SMSPTTNVLLSPLSVATALSALSLGAEQRTESI IHRALYYDLISSPDIGHGTYKELLDVTARQKNLKSAS
 RIVFEKKLRIKSSFVAPLEKSYGTRPRVLTGNPRLDLQEINNWWQAQMGKGLARSTKEIPDEISILLGV
 AHFKGQWVTKFDSRKTSLDFYLDEERTVRVPMMSDPKAVLRYGLSDLSCKIAQLPLTGSMIIFFLPL
 KVTQNLTLIEESLTSEFIHDIDRELKTVQAVLTPKLLKLSYEGEVTKSLQEMKLQSLFDSPDFSKITGKP
 IKLTQVEHRAGFEWNEDGAGTTPSPGLQPAHLTFPLDYHLNQPFIFVLRDSTDGALLFIGKILDPRGP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_002615

ORF Size: 1254 bp

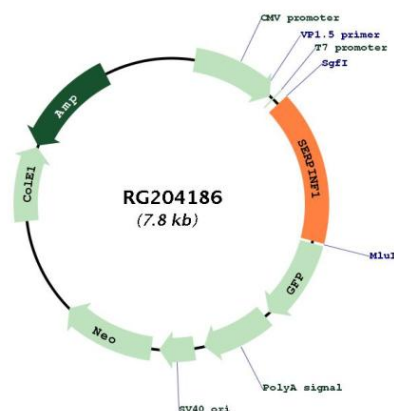
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_002615.2</u>
RefSeq Size:	1542 bp
RefSeq ORF:	1257 bp
Locus ID:	5176
UniProt ID:	<u>P36955</u>
Cytogenetics:	17p13.3
Domains:	SERPIN
Protein Families:	Druggable Genome, Secreted Protein
Gene Summary:	This gene encodes a member of the serpin family that does not display the serine protease inhibitory activity shown by many of the other serpin proteins. The encoded protein is secreted and strongly inhibits angiogenesis. In addition, this protein is a neurotrophic factor involved in neuronal differentiation in retinoblastoma cells. Mutations in this gene were found in individuals with osteogenesis imperfecta, type VI. [provided by RefSeq, Aug 2016]

Product images:



Circular map for RG204186