

Product datasheet for **SC122932**

PDF (NM_022341) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDF (NM_022341) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_022341 edited

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CATGGCCCGGCTGTGGGCGCGCTGAGTCTTCGGCCACTGTGGGCGGCCGTGCCGTGGGG
CGGGGCGGCAGCCGTCGGTGTCCGGCTTGCAGTCCACGGCCGCCCGACGGCGTCGA
GGGCCCGGCGCTGCGGCGCTCCTATTGGCGCCACCTGAGGCGTCTGGTGTGGGTCTCC
CGAACCGCGTTCTCGCACGTGTGCCAAGTCGGGGACCCGGTGCTGCGCGGCGTGCGGGC
CCCGGTGGAGCGGGCGCAGCTAGGCGGGCCGAGCTGCAGCGGCTGACGCAACGGCTGGT
CCAGGTGATGCGGCGGCGGCGCTGCGTGGGCCTAAGCGCGCCGAGCTGGGGGTGCCGCG
GCAGGTGCTGGCGCTGGAGCTCCCCGAGGCGCTGTGTGGGAGTGCCCGCCCCGCCAGCG
CGCGCTCCGCCAATGGAGCCCTTCCCCTGCGCGTGTTCGTGAACCCAGCCTGCGAGT
GCTTGACAGCCGCTGGTCACCTTTCCCGAGGGCTGCGAGAGCGTCGCCGGCTTCCTGGC
CTGCGTGCCCCGCTTCCAGGCGGTGCAGATCTCAGGGCTGGACCCCAATGGAGAACAGGT
GGTGTGGCAGGCGAGCGGGTGGGCAGCCGCATCATCCAGCACGAGATGGACCACCTGCA
GGGCTGCCTGTTTATTGACAAAATGGACAGCAGGACGTTCAAAAACGTCTATTGGATGAA
GGTGAATGACTAAAGCTTTGCTACTGGGCTGAGGATTCGGATACCAAGACGCAAAACAC
TTTCACTTTGAGCTGGGCAAAATCTTACTTGGCATCAACTTGGATGGCTCGCATATGACAG
GAAACTGGATTGCCAAGGCATGGCAGACTGAGCTGGAGGAAGATGTCAGAAATGTTTGCC
CTGAAATCAGTTACGGACAAAATGTTGGCTACAACCTTGGAGAGAAAAATCACCCCAAAG
GAGTGGACATTTCTAACAATTCTGTATGGAGGAAGGTGGGTAATTGCATTCGTCTGCA
GTAGACACGAGTTCCTCGGACCTGTATAATCTCCCAAAGCAAGTTTGGTATTAATGTA
GTCCCAAATACCTGAAAGCTGTCTTTAAAAATGCAGGTAAGCATGTGACTGGCAAAAAA
AAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_022341 unedited <pre> GGGCCGTTCAAATTTGTATACGACTCATATAGGCGGCCGCGNAATCCCGGGATATCGTCC ACCCACGCGTCCGCATGGCCCGGCTGTGGGGCGCGCTAGTCTTCGGCCACTGTGGGCGG CCGTGCCGTGGGGCGGGCGGCAGCCGTCGGTGTCCGGGCTTGCAGCTCCACGGCCGCC CGGACGGCGTCGAGGGCCCGGCGCTGCGGCGCTCCTATTGGGCCACCTGAGGCGTCTGG TGCTGGGTCTCCCGAACCGCCGTTCTCGCACGTGTGCCAAGTCGGGGACCCGGTGCTGC GCGGCGTGGCGGCCCGGTGGAGCGGGCGCAGCTAGGCGGGCCCGAGCTGCAGCGGCTGA CGCAACGCTGGTCCAGGTGATGCGGCGCGCGCTGCGTGGGCCCTAAGCGCGCCGACG TGGGGGTGCCGCGCAGGTGCTGCGCTGGAGCTCCCGAGGCGCTGTGTGGGAGTGCC CGCCCCGCCAGCGCGCTCCGCCAAATGGAGCCCTTCCCTGCGCGTGTTCGTGAACC CCAGCCTGCGAGTGCTTGACAGCCGCTGGTCACCTTTCCGAGGGCTGCGAGAGCGTCG CCGGCTTCTGGCTGCGTGCCCGCTTCCAGGCGGTGCAGATCTCAGGGCTGGACCCCA ATGGAGAACAGGTGGTGTGGCANGCGAGCGGTGGGAGCCCGCATCATCCAGCACGAGA TGGACCACCTGCNAGGCTGCCTGTTTATTGANCAAATGGACAGCAGGACGTTACAAACG TCTATTGGATGAAGGTGAATGACTAAAGCTTTGCTACTGGGGCTNGAGATTCCGGATACC AAGACGCAACACTTTCACTTTGAGCTGGCAATCTTACTTGGCATCAACTGGGATG </pre>
Restriction Sites:	Please inquire
ACCN:	NM_022341
Insert Size:	1156 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_022341.1, NP_071736.1</u>
RefSeq Size:	1180 bp
RefSeq ORF:	732 bp
Locus ID:	64146
UniProt ID:	<u>Q9HBH1</u>
Cytogenetics:	16q22.1

Gene Summary:

Protein synthesis proceeds after formylation of methionine by methionyl-tRNA formyl transferase (FMT) and transfer of the charged initiator f-met tRNA to the ribosome. In eubacteria and eukaryotic organelles the product of this gene, peptide deformylase (PDF), removes the formyl group from the initiating methionine of nascent peptides. In eubacteria, deformylation of nascent peptides is required for subsequent cleavage of initiating methionines by methionine aminopeptidase. The discovery that a natural inhibitor of PDF, actinonin, acts as an antimicrobial agent in some bacteria has spurred intensive research into the design of bacterial-specific PDF inhibitors. In human cells, only mitochondrial proteins have N-formylation of initiating methionines. Protein inhibitors of PDF or siRNAs of PDF block the growth of cancer cell lines but have no effect on normal cell growth. In humans, PDF function may therefore be restricted to rapidly growing cells. [provided by RefSeq, Nov 2008]