

Product datasheet for **SC122631**

PI3 (NM_002638) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PI3 (NM_002638) Human Untagged Clone
Tag:	Tag Free
Symbol:	PI3
Synonyms:	cementoin; ESI; SKALP; WAP3; WFDC14
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_002638 edited GGGGGCCAAACACCTTCCTGACACCATGAGGGCCAGCAGCTTCTTGATCGTGGTGGTGT CCTCATCGCTGGGACGCTGGTTCTAGAGGCAGCTGTACGGGAGTTCCTGTTAAAGTCA AGACACTGTCAAAGCCGTGTTCCATTCAATGGACAAGATCCCGTTAAAGGACAAGTTTC AGTTAAAGGTCAAGATAAAGTCAAAGCGCAAGAGCCAGTCAAAGGTCCAGTCTCCACTAA GCCTGGCTCCTGCCCATATCTTGATCCGGTGCGCCATGTTGAATCCCCCTAACCGCTG CTTGAAAGATACTGACTGCCAGGAATCAAGAAGTGTGTGAAGGCTCTTGCGGGATGGC CTGTTTCGTTCCCCAGTGAGAGGGAGCCGGTCTTGCTGCACCTGTGCCGTCCCCAGAGC TACAGGCTCCATCTGGTCTAAGTCCCTGCTGCCCTTCCCCTCCCACACTGTCCATTCT TCCTCCCATTGAGGATGCCACGGCTGGAGCTGCCTCTCTCATCCACTTCCAATAAAGA GTTCTTCTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002638 unedited AAAAGGTCAAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCCATTACGGCCGG GGGCCAAACACCTTCTGACACCATGAGGGCCAGCAGCTTCTTGATCGTGGTGGTGTTC TCATCGCTGGGACGCTGGTTCTAGAGGCAGCTGTCACGGGAGTTCCTGTAAAGGTCAAG ACACTGTCAAAGCCGTGTTCCATTCAATGGACAAGATCCCGTTAAAGGACAAGTTTCAG TTAAAGGTCAAGATAAAGTCAAAGCGCAAGAGCCAGTCAAAGGTCCAGTCTCCACTAAGC CTGGCTCTGCCCATTAATCTTGATCCGGTGCGCCATGTTGAATCCCCCTAACCGTGCT TGAAAGATACTGACTGCCAGGAATCAAGAAGTGTGTGAAGGCTCTTGCGGGATGGCCT GTTTCGTTCCCCAGTGAGAGGGAGCCGGTCTTGTGACCTGTGCCGTCGCCAGAGCTA CAGGCTCCATCTGGTCTAAGTCCCTGCTGCCCTTCCCCTTCCACACTGTCCATTCTTC CTCCCATTAGGATGCCACGGCTGGAGCTGCCTCTCATCCACTTTCCAATAAAGAGT TCCTTCTGCAAAAAAAAAANNNAAAAAAAAAAAAAAAAAACCATGTCGGCCCGCTCGGCC CTCGACTTAGATTGCGGCCGGTTCATAGCTGTTTCTGAACAGATCCCGGGTGGCATC CCTGTGACCCCTCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTCCCACCA GCCTTGCTCTAATAAAATTAAGTTGCATCATTTTGTCTGACTAGGTGTCCTTCTATATAT ATGGGTGGAGGGGGGGGGTATGANAAGGGGCANTTTGGGNNACAANCTTTAGGGN CCGCGGGGTTTATTGAAA
Restriction Sites:	Please inquire
ACCN:	NM_002638
Insert Size:	582 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:	<ol style="list-style-type: none"> 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_002638.2 , NP_002629.1
RefSeq Size:	623 bp
RefSeq ORF:	354 bp
Locus ID:	5266
UniProt ID:	P19957
Cytogenetics:	20q13.12
Protein Families:	Secreted Protein, Transmembrane

Gene Summary:

This gene encodes an elastase-specific inhibitor that functions as an antimicrobial peptide against Gram-positive and Gram-negative bacteria, and fungal pathogens. The protein contains a WAP-type four-disulfide core (WFDC) domain, and is thus a member of the WFDC domain family. Most WFDC gene members are localized to chromosome 20q12-q13 in two clusters: centromeric and telomeric. This gene belongs to the centromeric cluster. Expression of this gene is upregulated by bacterial lipopolysaccharides and cytokines. [provided by RefSeq, Oct 2014]