

Product datasheet for **SC303580**

JMJD7-PLA2G4B (NM_005090) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	JMJD7-PLA2G4B (NM_005090) Human Untagged Clone
Tag:	Tag Free
Symbol:	JMJD7-PLA2G4B
Synonyms:	cPLA2-beta; HsT16992
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_005090 edited
 ATGGCGGAGGCGGCTTTGGAAGCCGTGCGGAGCGAGTTACGAGAATTCGCGCCGCTGCA
 AGGGAGCTCTGCGTGCCCTTTGCTGTGCCCTACCTGGACAAACCCCAACTCCGCTCCAC
 TTCTACCGGGACTGGGTCTGCCCAACAGGCCGTGCATTATCCGCAACGCTCTGCAGCAC
 TGCCCGGCCCTCCAGAAGTGGTCCCTCCCCTATTTCCAGAGCCACAGTGGGCTCCACAGAG
 GTGAGTGTGGCCGTGACCCAGATGGTTACGCGGATGCCGTGAGAGGGGATCGCTTCATG
 ATGCCAGCTGAGCGCCGCTGCCCTGAGCTTCGTGCTGGATGTGCTGGAGGGCCGGCC
 CAGCACCTGGAGTCTCTATGTGCAGAAGCAGTGTCCAACCTGCCAGCGAGCTGCC
 CAGCTGCTGCCTGATCTGGAATCCCATGTGCCCTGGGCCCTCCGAAGCCCTGGGAAAGATG
 CCCGATGCTGTAACCTTCTGGCTGGGGGAGGCGGCTGCAGTGACTTCTTGCACAAGGAC
 CACTATGAGAACCTCTACTGCGTGGTCTCAGGAGAGAAGCATTTCCTGTTCCATCCGCC
 AGCGACCGGCCCTTCATCCCCTATGAGCTGTACACGCCGCAACCTACCAGCTAACTGAA
 GAGGGCACCTTTAAGGTGGTGGATGAAGAGGCCATGGAGAAGGCAGAGGTGCCAGGACC
 TGCCCTGCTCACGGTTCGTGCTCCTGCAGGCCCATCGCCTACCCTCTAAGGACCTAGTGACC
 CCCTCTGACTGCTACGTGACTCTCTGGCTGCCACGGCCTGCAGCCACAGGCTCCAGACA
 CGCACGGTCAAGAACAGCAGTAGCCCTGTCTGGAACCAGAGCTTTCACTTCAGGATCCAC
 AGGCAGCTCAAGAATGTCATGGAAGTCAAAGTCTTTGACCAGGACCTGGTGACCGGAGAT
 GACCCTGTGTTGTCAGTACTGTTTATGATGCGGGGACTCTGCGGGCTGGGGAGTCCGGCGC
 GAGAGCTTCTACTGAGCCCTCAGGGTGAGGGGCGCCTGGAAGTTGAATTCGCCTGCAG
 AGTCTGGCTGACCGTGGCGAGTGGCTCGTCAGCAATGGCGTTCTGGTGGCCCGGAGCTC
 TCCTGCTTGACGTTCAACTGGAGGAGACAGGAGACCAGAAGTCTCAGAGCACAGAGTT
 CAGCTTGTGGTTCCTGGTCTGTGAGGGTCCGAGGAGGCTCTGTGGGCACTGGCACC
 TTCTGCTTCCACTGCCAGCCTGCTGGGAGCAGGAGCTGAGTATTCGCCTGCAGGATGCC
 CCCGAGGAGCAACTAAAGGCGCCACTGAGTGCCCTGCCCTCTGGTCAAGTGGTGAGGCTT
 GTCTTCCCACGTCCCAGGAGCCCTGATGAGAGTGGAGCTGAAAAAAGAAGCAGGACTG
 AGGGAGCTGGCCGTGCGACTGGGCTTCGGGCCCTGTGCAGAGGAGCAGGCCTTCTGAGC
 AGGAGGAAGCAGGTGGTGGCCGCGCCTTGAGGCAGGCCCTGCAGCTGGATGGAGACCTG



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CAGGAGGATGAGATCCCAGTGGTAGCTATTATGGCCACTGGTGGTGGGATCCGGGCAATG
 ACTTCCCTGTATGGGCAGCTGGCTGGCCTGAAGGAGCTGGGCCTCTTGGATTGCGTCTCC
 TACATCACCGGGGCTCGGGCTCCACCTGGGCCTTGCCAACTTTATGAGGACCCAGAG
 TGGTCTCAGAAGGACCTGGCAGGGCCACTGAGTTGCTGAAGACCCAGGTGACCAAGAAC
 AAG: CTGGGTGTGCTGGCCCCAGCCAGCTGCAGCGGTACCGGCAGGAGCTGGCCGAGCG
 TGCCCCGTTGGGCTACCAAGCTGCTTACCAACCTGTGGGCCCTCATCAACGAGCGCT
 GCTGCATGATGAGCCCCATGATCACAAGCTCTCAGATCAACGGGAGGCCCTGAGTCATGG
 CCAGAACCCTCTGCCATCTACTGTGCCCTCAACACCAAAGGGCAGAGCCTGACCACTTT
 TGAATTTGGGAGTGGTGCAGTTCTCTCCCTACGAGGTGCGCTTCCCAAGTACGGGGC
 CTTTCATCCCCTCTGAGCTCTTTGGCTCCGAGTTCTTTATGGGGCAGCTGATGAAGAGGCT
 TCCTGAGTCCCGCATCTGCTTCTTAGAAGGTATCTGGAGCAACCTGTATGCAGCCAACCT
 CCAGGACAGCTTATACTGGGCTCAGAGCCAGCCAGTTCTGGGACCGCTGGGTGAGGAA
 CCAGGCCAACCTGGACAAGGAGCAGGTCCCCCTTCTGAAGATAGAAGAACCACCTCAAC
 AGCCGGCAGGATAGCTGAGTTTTTACCCGATCTTCTGACGTGGCGTCCACTGGCCAGGC
 CACACATAATTTCTGCGTGGCCTCCATTTCCACAAAGACTACTTTCAGCATCTCACTT
 CTCACATGGAAGCTACCACTCTGGATGGGCTCCCAACCAGCTGACACCCTCGGAGCC
 CCACCTGTGCCTGCTGGATGTTGGCTACCTCATCAATACCAGCTGCCTGCCCTCCTGCA
 GCCCACTCGGGACGTGGACCTCATCCTGTATTGGACTACAACCTCCACGGAGCCTTCCA
 GCAGTTGCAGCTCCTGGGCCGTTCTGCCAGGAGCAGGGGATCCCGTTCCACCCATCTC
 GCCCAGCCCCGAAGAGCAGCTCCAGCCTCGGGAGTGCCACACCTTCTCCGACCCACCTG
 CCCCAGCCCCGCGGTGCTGCACTTTCTCTGGTCAAGGACTCCTTCCGGGAGTACTC
 GGCCCCGTTGGGTCGGCGGACACCCGAGGAGCGGCAGCTGGGGAGGTGAACCTGTCTTC
 ATCGGACTCTCCCTACCACTACACGAAGGTGACCTACAGCCAGGAGGACGTGGACAAGCT
 GCTGCACCTGACACATTACAATGTCTGCAACAACAGGAGCAGCTGCTGGAGGCTCTGCG
 CCAGGCAGTGCAGCGGAGCGGCAGCGCAGGCCCACTGA

- Restriction Sites:** Please inquire
- ACCN:** NM_005090
- Insert Size:** 3500 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).
- OTI Annotation:** There is a SNP at position 1298, which results in a R to C change. Another SNP at position 1585 was found and has no amino acid change.
- 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_005090.1](#), [NP_005081.1](#)

RefSeq Size:	3352 bp
RefSeq ORF:	3039 bp
Locus ID:	8681
UniProt ID:	<u>P0C869</u>
Cytogenetics:	15q15.1
Protein Pathways:	alpha-Linolenic acid metabolism, Arachidonic acid metabolism, Ether lipid metabolism, Fc epsilon RI signaling pathway, Glycerophospholipid metabolism, GnRH signaling pathway, Linoleic acid metabolism, Long-term depression, MAPK signaling pathway, Metabolic pathways, Vascular smooth muscle contraction, VEGF signaling pathway
Gene Summary:	<p>This locus represents naturally-occurring readthrough transcription between the neighboring jumonji domain containing 7 (JMJD7) and phospholipase A2, group IVB (cytosolic) (PLA2G4B) genes. Readthrough transcripts encode fusion proteins that share amino acid sequence with each individual gene product, including a partial JmjC domain and downstream C2 and phospholipase A2 domains. Alternatively spliced transcript variants have been observed. [provided by RefSeq, Oct 2013]</p> <p>Transcript Variant: This variant (1, also known as cPLA2 beta) represents the longer transcript and encodes the longer isoform (a).</p>