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Product datasheet for SC125777

Calcium independent Phospholipase A2 (PLA2G6) (NM_001004426) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calcium independent Phospholipase A2 (PLA2G6) (NM_001004426) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calcium independent Phospholipase A2
Synonyms:	CaI-PLA2; GVI; INAD1; iPLA2; IPLA2-VIA; iPLA2beta; NBIA2; NBIA2A; NBIA2B; PARK14; PLA2; PNPLA9
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_001004426 edited GGAAGTAGAAGTGCTGAGTAAGCCGAGACAGAGGGGGAAGACGGTGGGGCCTCCCCACCT GCCCCGCAGAAGATGCAGTTCTTTGGCCGCCTGGTCAATACCTTCAGTGGCGTCACCAAC TTGTTCTCTAACCCATTCCGGGTGAAGGAGGTGGCTGTAGCCGACTACACCTCGAGTGAC CGAGTTCGGGAGGAAGGGCAGCTGATTCTGTTCCAGAACACTCCCAACCGCACCTGGGAC TGCGTCCTGGTCAACCCCAGGAACTCACAGAGTGGATTCCGACTCTTCCAGCTGGAGTTG GAGGCTGACGCCCTAGTGAATTTCCATCAGTATTCTTCCCAGCTGCTACCCTTCTATGAG AGCTCCCCTCAGGTCCTGCACACTGAGGTCCTGCAGCACCTGACCGACCTCATCCGTAAC CACCCCAGCTGGTCAGTGGCCCACCTGGCTGTGGAGCTAGGGATCCGCGAGTGCTTCCAT CACAGCCGTATCATCAGCTGTGCCAATTGCGCGGAGAACGAGGAGGGCTGCACACCCCTG CACCTGGCCTGCCGCAAGGGTGATGGGGAGATCCTGGTGGAGCTGGTGCAGTACTGCCAC ACTCAGATGGATGTCACCGACTACAAGGGAGAGACCGTCTTCCATTATGCTGTCCAGGGT GACAATTCTCAGGTGCTGCAGCTCCTTGGAAGGAACGCAGTGGCTGGCCTGAACCAGGTG AATAACCAAGGGCTGACCCCGCTGCACCTGGCCTGCCAGCTGGGGAAGCAGGAGATGGTC CGCGTGCTGCTGCTGTGCAATGCTCGGTGCAACATCATGGGCCCCAACGGCTACCCCATC CACTCGGCCATGAAGTTCTCTCAGAAGGGGTGTGCGGAGATGATCATCAGCATGGACAGC AGCCAGATCCACAGCAAAGACCCCCGTTACGGAGCCAGCCCCCTCCACTGGGCCAAGAAC GCAGAGATGGCCCGCATGCTGCTGAAACGGGGCTGCAACGTGAACAGCACCAGCTCCGCG GGGAACACGGCCCTGCACGTGGCGGTGATGCGCAACCGCTTCGACTGTGCCATAGTGCTG CTGACCCACGGGGCCAACGCGGATGCCCGCGGAGAGCACGGCAACACCCCGCTGCACCTG GCCATGTCGAAAGACAACGTGGAGATGATCAAGGCCCTCATCGTGTTCGGAGCAGAAGTG GACACCCCGAATGACTTTGGGGAGACTCCTACATTCCTAGCCTCCAAAATCGGCAGACAA CTACAGGATCTCATGCACATCTCACGGGCCCGGAAGCCAGCGTTCATCCTGGGCTCCATG AGGGACGAGAAGCGGACCCACGACCACCTGCTGTGCCTGGATGGAGGAGGAGTGAAAGGC CTCATCATCATCCAGCTCCTCATCGCCATCGAGAAGGCCTCGGGTGTGGCCACCAAGGAC CTGTTTGACTGGGTGGCGGGCACCAGCACTGGAGGCATCCTGGCCCTGGCCATTCTGCAC

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AGTAAGTCCATGGCCTACATGCGCGGCATGTACTTTCGCATGAAGGATGAGGTGTTCCGG
GGCTCCAGGCCCTACGAGTCGGGGCCCCTGGAGGAGTTCCTGAAGCGGGAGTTTGGGGAG
CACACCAAGATGACGGACGTCAGGAAACCCAAGGTGATGCTGACAGGGACACTGTCTGAC
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CCCAATGGAAGTGGCTTAAGAGCCAAAACTGAAATAAATCATTTGGATTCAAAAAAAAAA
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AAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001004426 unedited
NGGGGGTTTAGAATTTGTAATACGACTTACTATAGNNGGCGGCCGCGNAATTCCCGGGAT
GGAAGTAGAAGTGCTGAGTAAGCCGAGACAGAGGGGAAGACGGTGGGGCCTCCCCACCTG
CCCCGCAGAAGATGCAGTTCTTTGGCCGCCTGGTCAATACCTTCAGTGGCGTCACCAACT
TGTTCTCTAACCCATTCCGGGTGAAGGAGGTGGCTGTAGCCGACTACACCTCGAGTGACC
GAGTTCGGGAGGAAGGGCAGCTGATTCTGTTCCAGAACACTCCCAACCGCACCTGGGACT
GCGTCCTGGTCAACCCCAGGAACTCACAGAGTGGATTCCGACTCTTCCAGCTGGAGTTGG
AGGCTGACGCCCTAGTGAATTTCCATCAGTATTCTTCCCAGCTGCTACCCTTCTATGAGA
GCTCCCCTCAGGTCCTGCACACTGAGGTCCTGCAGCACCTGACCGACCTCATCCGTAACC
ACCCCAGCTGGTCAGTGGCCCACCTGGCTGTGGAGCTAGGGATCCGCGAGTGCTTCCATC
ACAGCCGTATCATCAGCTGTGCCAATTGCGCGGAGAACGAGGAGGGCTGCACACCCCTGC
ACCTGGCCTGCCGCAAGGGTGATGGGGAGATCCTGGTGGAGCTGGTGCAGTACTGCCACA
CTCAGATGGATGTCACCGACTACAAGGGAGAGACCGTCTTCCATTATGCTGTCCAGGGTG
ACAATTCTCANGTGCTGCAGCNTCTTGGAAGGAACGCAGTGGCTGGCCTGAACCANGTGA
ATAACCAAGGGCTGACCCCGCTGCACCTGGCCTGCCAGCTGGGGAAGCAAGAGAATGTCC
GCGTGCTGCTGCTGTGCCATGCTTCGTGCAACATCC

Restriction Sites: NotI-NotI

ACCN: NM_001004426

Insert Size: 3100 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:	NM_001004426.1, NP_001004426.1
RefSeq Size:	3077 bp
RefSeq ORF:	2259 bp
Locus ID:	8398
UniProt ID:	O60733
Cytogenetics:	22q13.1
Protein Pathways:	alpha-Linolenic acid metabolism, Arachidonic acid metabolism, Ether lipid metabolism, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, 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:	The protein encoded by this gene is an A2 phospholipase, a class of enzyme that catalyzes the release of fatty acids from phospholipids. The encoded protein may play a role in phospholipid remodelling, arachidonic acid release, leukotriene and prostaglandin synthesis, fas-mediated apoptosis, and transmembrane ion flux in glucose-stimulated B-cells. Several transcript variants encoding multiple isoforms have been described, but the full-length nature of only three of them have been determined to date. [provided by RefSeq, Dec 2010] Transcript Variant: This variant (2) lacks an in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but lacks an internal segment compared to isoform a. Variants 2, 3, 5 and 6 encode the same isoform (b). Isoform b is found in the cytoplasm while isoform a is membrane-bound.