

Product datasheet for **SC326819**

PLAAT5 (NM_001146728) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLAAT5 (NM_001146728) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLAAT5
Synonyms:	HRASLS5; HRLP5; HRSL5; iNAT; PLAAT-5; RLP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326819 representing NM_001146728. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGCTGAGCCGGGCGCCGAGGGGAGTACGCGCTCCGCTCCCTAGGATCCCCACCCTCCCC
AAACCCGCTCGCAACCGCGGTACCGGGCCCAAGGACCAGCCGCTGCGCTCAGACGTTAGCTGTG
CCCCACTCAGGTCTAAATAGCATTTCCCCCTTGAATTAGAAGAATCCGTGGGATTCGCAGCGTTGGTC
CAGCTCCAGCCAAGCAGCCTCCGCCGGGCACATTAGAACAGGGCAGAAGCATCCAGCAAGGGGAGAAG
GCTGTAGTTAGCTTGAGACCACACCCAGCCAGAAAGCAGACTGGAGTTCAATCCAAAGCCTGAGAAT
GAAGGCAAGTTAATAAGCAAGCAGCTGAGGGAAAACCAAGCCAGACCTGGAGACCTGATTGAGATT
TTTCGAATTGGCTATGAGCACTGGGCCATCTATGTAGAAGATGATTGCGTGGTCCATCTGGCTCCCCCA
AGTGAGGAGTTTGGGTGGGCAGCATTACTTCCATCTTTAGCAATCGGGCCGTGGTAAAATACAGTCGT
CTGGAGGATGTGCTGCATGGCTGCTCCTGGAAGGTCAATAACAAGCTAGATGGGACGTACCTGCCCTTG
CCGGTGGACAAGATCATCCAGCGTACAAAAAAGATGGTCAACAAGATCGTGACGTACAGCCTGATTGAA
GGGAAGTGTAGAGCAGCCCTGATGGAAGGAGCGAAGGCTGCTGGAGCAGTTATTTACAGCTGTAGTGA
TAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001146728
Insert Size:	762 bp



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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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001146728.1</u>
RefSeq Size:	3077 bp
RefSeq ORF:	762 bp
Locus ID:	117245
Cytogenetics:	11q12.3
MW:	27.6 kDa
Gene Summary:	<p>Exhibits both phospholipase A1/2 and acyltransferase activities (PubMed:22825852, PubMed:26503625). Shows phospholipase A1 (PLA1) and A2 (PLA2) activity, catalyzing the calcium-independent release of fatty acids from the sn-1 or sn-2 position of glycerophospholipids (PubMed:22825852). Shows N-acyltransferase activity, catalyzing the calcium-independent transfer of a fatty acyl group at the sn-1 position of phosphatidylcholine (PC) and other glycerophospholipids to the primary amine of phosphatidylethanolamine (PE), forming N-acylphosphatidylethanolamine (NAPE), which serves as precursor for N-acylethanolamines (NAEs) (PubMed:19000777, PubMed:22825852).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) uses an alternate splice site in the 3' coding region compared to variant 1 that results in a frameshift. It encodes isoform 3, which has a shorter, distinct C-terminus compared to isoform 1.</p>