

Product datasheet for **RC228184**

PLAAT5 (NM_001146728) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PLAAT5 (NM_001146728) Human Tagged ORF Clone
Tag: Myc-DDK
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)
ORF Nucleotide Sequence: >RC228184 representing NM_001146728
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCCTGAGCCGGGGCCGAGGGGGAGTACGCGCTCCGCTCCCTAGGATCCCCACCCCTCCCCA
AACCCGCCTCGCGAACCGCCGGTACCGGGCCCAAGGACCAGCCGCTGCGCTCAGACGTTCCAGCTGTGCC
CCTCAGGTCTAAATAGCATTTCCCCCTTGAATTAGAAGAATCCGTGGGATTCGACGCTTGGTCCAG
CTCCAGCCAAGCAGCTCCGCCGGGCACATTAGAACAGGGCAGAAGCATCCAGCAAGGGGAGAAGGCTG
TAGTTAGCTTGGAGACCACCCAGCCAGAAAGCAGACTGGAGTTCAATCCAAAGCCTGAGAATGAAGG
CAAGTTAATAAAGCAAGCAGCTGAGGGAAAACCAAGACCCAGACCTGGAGACCTGATTGAGATTTTCGA
ATTGGCTATGAGCACTGGCCATCTATGTAGAAGATGATTGCGTGGTCCATCTGGCTCCCCAAGTGAAGG
AGTTTGAGGTGGGCAGCATTACTTCCATCTTTAGCAATCGGGCCGTGGTAAAATACAGTCGCTGGAGGA
TGTGCTGCATGGCTGCTCCTGGAAGGTCAATAACAAGCTAGATGGGACGTACCTGCCCTTCCCGGTGGAC
AAGATCATCCAGCGTACAAAAAGATGGTCAACAAGATCGTGCAGTACAGCCTGATTGAAGGGAAGTGA
GAGCACGCCCTGATGGAAGGAGCGAAGGCTGCTGGAGCAGTTATTCAGCTGTAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC228184 representing NM_001146728
Red=Cloning site Green=Tags(s)

MGLSPGAEGEYALRLPRIPPLPKPASRTAGTGPKDQPPALRRSAVPHSGLNSISPLEEESVGF AALVQ
 LPAKQPPPGTLEQGRSIQQGEKAVVSLETTSPQKADWSSIPKPENEGLIKQAAEGKPRPRPGDLIEIFR
 IGYEHWAIYVEDDCVHLAPPSEEFVGSITSIFSNAVVKYSRLEDVHLHGCSWKVNNKLDGTYLPLPVD
 KIIQRTKKMVNKIVQYSLIEGNCRARPDGRSEGCWSSYFSCSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1272_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001146728

ORF Size: 759 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001146728.1](#), [NP_001140200.1](#)

RefSeq ORF: 762 bp

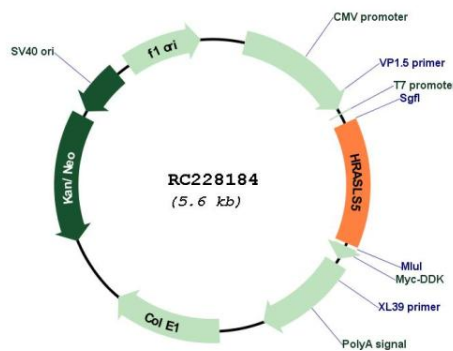
Locus ID: 117245

Cytogenetics: 11q12.3

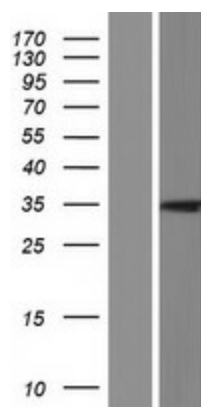
MW: 27.5 kDa

Gene Summary: 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]

Product images:



Circular map for RC228184



Western blot validation of overexpression lysate (Cat# [LY431212]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228184 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).