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Product datasheet for RG228184

PLAAT5 (NM_001146728) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLAAT5 (NM_001146728) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PLAAT5
Synonyms:	HRASLS5; HRLP5; HRSL5; iNAT; PLAAT-5; RLP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

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>RG228184 representing NM_001146728
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCCTGAGCCCGGGCGCCGAGGGGGAGTACGCGCTCCGCCTCCCTAGGATTCCCCCACCCCTCCCCA
AACCCGCCTCGCGAACCGCCGGTACCGGGCCCAAGGACCAGCCGCCTGCGCTCAGACGTTCAGCTGTGCC
CCACTCAGGTCTAAATAGCATTTCCCCCCTTGAATTAGAAGAATCCGTGGGATTCGCAGCGTTGGTCCAG
CTCCCAGCCAAGCAGCCTCCGCCGGGCACATTAGAACAGGGCAGAAGCATCCAGCAAGGGGAGAAGGCTG
TAGTTAGCTTGGAGACCACACCCAGCCAGAAAGCAGACTGGAGTTCAATTCCAAAGCCTGAGAATGAAGG
CAAGTTAATAAAGCAAGCAGCTGAGGGAAAACCAAGACCCAGACCTGGAGACCTGATTGAGATTTTTCGA
ATTGGCTATGAGCACTGGGCCATCTATGTAGAAGATGATTGCGTGGTCCATCTGGCTCCCCCAAGTGAGG
AGTTTGAGGTGGGCAGCATTACTTCCATCTTTAGCAATCGGGCCGTGGTGAAATACAGTCGTCTGGAGGA
TGTGCTGCATGGCTGCTCCTGGAAGGTCAATAACAAGCTAGATGGGACGTACCTGCCCTTGCCGGTGGAC
AAGATCATCCAGCGTACAAAAAAGATGGTCAACAAGATCGTGCAGTACAGCCTGATTGAAGGGAACTGTA
GAGCACGCCCTGATGGAAGGAGCGAAGGCTGCTGGAGCAGTTATTTCAGCTGTAGTGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag -  GTTTAA
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View online »

Protein Sequence:

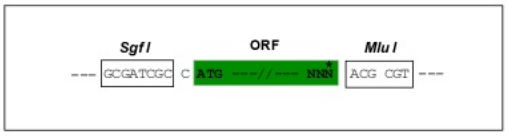
>RG228184 representing NM_001146728
Red=Cloning site Green=Tags(s)

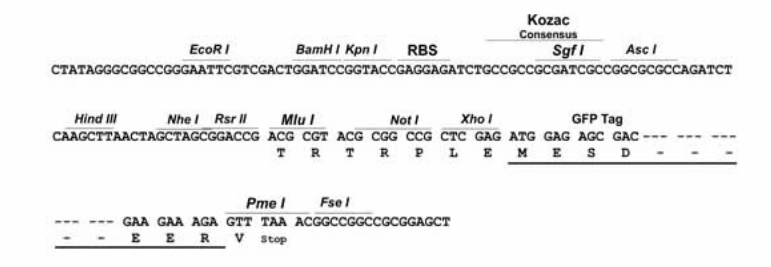
MGLSPGAEGEYALRLPRIPPPLPKPASRTAGTGPKDQPPALRRSAVPHSGLNSISPLELEESVGFAALVQ
LPAKQPPPGTLEQGRSIQQGEKAVVSLETTPSQKADWSSIPKPENEGKLIKQAAEGKPRPRPGDLIEIFR
IGYEHWAIYVEDDCVVHLAPPSEEFEVGSITSIFSNRAVVKYSRLEDVLHGCSWKVNNKLDGTYLPLPVD
KIIQRTKKMVNKIVQYSLIEGNCRARPDGRSEGCWSSYFSCSG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:





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 Size: 3077 bp

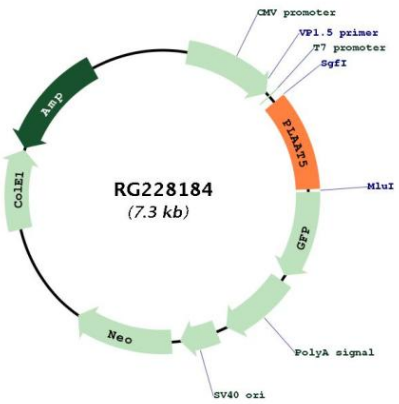
RefSeq ORF: 762 bp

Locus ID: 117245

Cytogenetics: 11q12.3

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 RG228184