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Product datasheet for MG201371

Hrasls (NM_013751) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Hrasls
Synonyms:	2810012B06Rik; A-C1; Hrasrs; HRSL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG201371 representing NM_013751
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGTAAATGATTGCTTCAGTCTGACCTATCCTCACAACCCACACCCAGGAGACTTGATTGAAGTGT
TCCGTCCTTGCTATCAGCACTGGGCACTGTACTTGGGTGATGGCTACGTGATCAACATTGCACCTATAGA
TGGCATTCGCTCATCATTTACAAGTGCTAAGTCCGTGTTCAGCACAAAGGCCTTGGTGAAAATGCAGCTT
TTGAAGGATGTTGTGGGAAATGACACATACAGAATAAATAACAAGTACGACACAACATACCCTCCTCTTC
CTGTGGAGGAGGTGATACAACGGTCAGAGTTCGCTATTGGGCAGGAAGTAGCCTATGACTTGCTGGTCAA
CAACTGTGAGCATTTTGTAACCTTGCTGCGCTATGGAGAAGGAGTGTCAGAGCAGGCCAACCGAGCAATC
GGCACCATCGGATTGGTGGCAGCTGGTATTGATATCTTCACATTCCTCGGCTTGTTTCCCAAAAGACAAA
GAACGAAATAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG201371 representing NM_013751
Red=Cloning site Green=Tags(s)

MAVNDCFSLTYPHNPHPGDLIEVFRPCYQHWALYLGDGYVINIAPIDGIRSSFTSAKSVFSTKALVKMQL
LKDVVGNDTYRINNKYDTTYPPLPVEEVIQRSEFAIGQEVAYDLLVNNCEHFVTLLRYGEGVSEQANRAI
GTIGLVAAGIDIFTFLGLFPKRQRTKY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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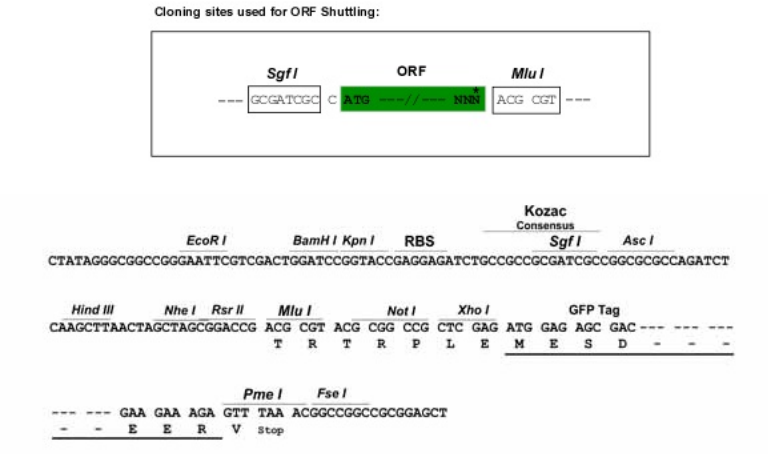
Cloning Scheme:



ACCN: NM_013751

ORF Size: 501 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_013751.6

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RefSeq Size: 2915 bp

RefSeq ORF: 504 bp

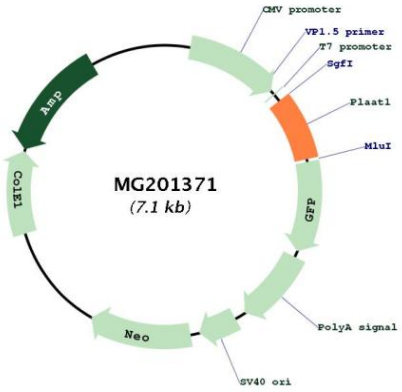
Locus ID: 27281

UniProt ID: Q9QZU4

Cytogenetics: 16 B2

Gene Summary: Exhibits both phospholipase A1/2 and acyltransferase activities (By similarity). 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:21880860). Shows O-acyltransferase activity, catalyzing the transfer of a fatty acyl group from glycerophospholipid to the hydroxyl group of lysophospholipid (By similarity). 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) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG201371

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