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Product datasheet for MG200468

Nrarp (NM_025980) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Nrarp
Synonyms:	2700054M22Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG200468 representing NM_025980
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCCAAGCCGAGCTGTCCACCTGCTCGGCGCCACAGACGCAGCGCATCTTCCAGGAAGCGGTGCGCA
AGGGCAACACGCAGGAGCTGCAGTCGCTGCTGCAGAACATGACTAACTGCGAATTCAACGTGAACTCGTT
CGGGCCGGAGGGCCAGACAGCACTACACCAGTCAGTCATCGACGGCAACCTGGAGCTGGTGAAGCTGTTG
GTCAAGTTCGGAGCCGACATCCGCCTAGCTAACCGCGACGGCTGGAGCGCGCTACACATCGCCGCTTTCG
GGGGCCACCAGGACATCGTGCTCTATCTCATCACCAAGGCCAAGTACGCGGCCAGCGGCCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG200468 representing NM_025980
Red=Cloning site Green=Tags(s)

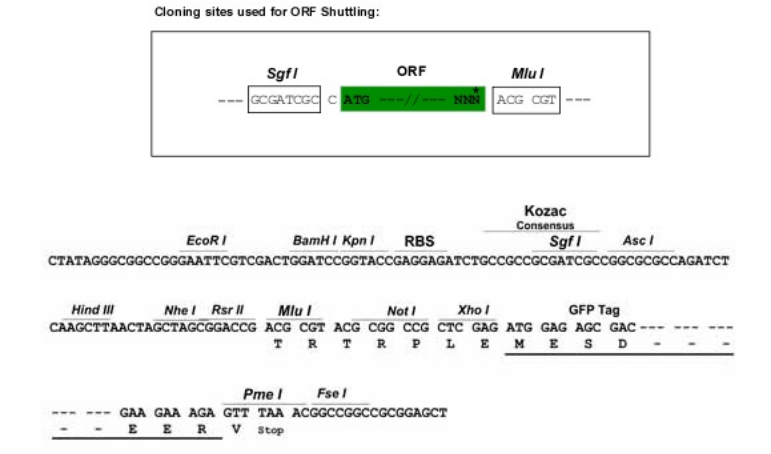
MSQAELSTCSAPQTQRIFQEAVRKGNTQELQSLLQNMTNCEFNVNSFGPEGQTALHQSVIDGNLELVKLL
VKFGADIRLANRDGWSALHIAAFGGHQDIVLYLITKAKYAASGR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



ACCN: NM_025980

ORF Size: 342 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_025980.2, NP_080256.2

RefSeq Size: 2590 bp

RefSeq ORF: 345 bp

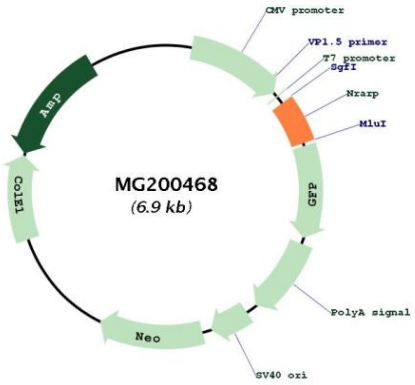
Locus ID: 67122

UniProt ID: Q91ZA8

Cytogenetics: 2 A3

Gene Summary: Downstream effector of Notch signaling. Involved in the regulation of liver cancer cells self-renewal (By similarity). Involved in the regulation of canonical Wnt signaling by stabilizing LEF1 (By similarity). Involved in angiogenesis acting downstream of Notch at branch points to regulate vascular density. Proposed to integrate endothelial Notch and Wnt signaling to control stalk cell proliferation and to stablilize new endothelial connections during angiogenesis (PubMed:19154719). During somitogenesis involved in maintenance of proper somite segmentation and proper numbers of somites and vertebrae. Required for proper anterior-posterior somite patterning. Proposed to function in a negative feedback loop to destabilize Notch 1 intracellular domain (NICD) and downregulate the Notch signal, preventing expansion of the Notch signal into the anterior somite domain (PubMed:21795391, PubMed:21998026).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG200468