Product datasheet for MR226996L4

Nf2 (NM_010898) Mouse Tagged Lenti ORF Clone

Product data:

|	
Product Type:	Expression Plasmids
Product Name:	Nf2 (NM_010898) Mouse Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	Nf2
Synonyms:	merlin
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR226996).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:

```
        Sgf I           ORF            Mlu I
--- GCG ATC GC C  ATG ---//--- NNŇ  ACG CGT ---
```

```
                                          Kozak
                                        Consensus
         EcoR I        BamH I      RBS       Sgf I            ORF
CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGC C ATG --- --- ---

                        Mlu I         Not I   Xho I         mGFP Tag
--- --- --- --- --- --- NNŇ ACG CGT ACG CGG CCG CTC GAG ATG AGC GGG GGC --- --- --- ---
                         T   R   T   R   P   L   E   M   S   G   G   -   -   -   -

--- --- GGA CTC AGA GTT TGG GTA GGA AGC
  -   -  G   L   R   V
```

* The last codon before the Stop codon of the ORF.

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Plasmid Map:
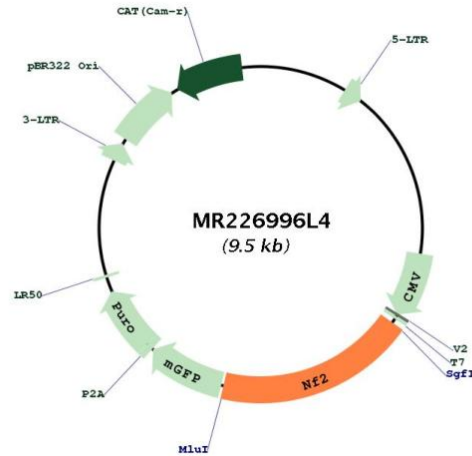
ACCN:	NM_010898
ORF Size:	1788 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_010898.3, NP_035028.2
RefSeq Size:	4708 bp
RefSeq ORF:	1791 bp

Locus ID:	18016
UniProt ID:	P46662
Cytogenetics:	11 3.0 cM
Gene Summary:	Probable regulator of the Hippo/SWH (Sav/Wts/Hpo) signaling pathway, a signaling pathway that plays a pivotal role in tumor suppression by restricting proliferation and promoting apoptosis. Along with WWC1 can synergistically induce the phosphorylation of LATS1 and LATS2 and can probably function in the regulation of the Hippo/SWH (Sav/Wts/Hpo) signaling pathway. May act as a membrane stabilizing protein. May inhibit PI3 kinase by binding to AGAP2 and impairing its stimulating activity. Suppresses cell proliferation and tumorigenesis by inhibiting the CUL4A-RBX1-DDB1-VprBP/DCAF1 E3 ubiquitin-protein ligase complex (By similarity). Plays a role in lens development and is required for complete fiber cell terminal differentiation, maintenance of cell polarity and separation of the lens vesicle from the corneal epithelium.[UniProtKB/Swiss-Prot Function]