

Product datasheet for **MR216538**

Znrf1 (NM_001168623) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Znrf1 (NM_001168623) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Znrf1
Synonyms: B830022L21Rik; nin283; Rnf42; Zrfp1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR216538 representing NM_001168623
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGATGAACCTATTCTGTGCACTTCTGGTGACAGGCCAGGAAAAGGCTGGAGGGGGATTCCAGGC
CCTGGCTGGTGGTAGGGCAGCAAAGCCCTGGCAGAGACTTCTACAGGAAAACAGGTTTCAAGTGCCCAT
TTGTTCCAAGTCTGTGGCTTCCGATGAGATGGAATGCACTTTATAATGTGTCTGAGCAAGCCTCGCCTG
TCCTACAATGATGATGTGCTGACTAAAGATGCGGGTGAAGTGTGTGATCTGCCTGGAGGAGCTGCTTCAGG
GGGACACGATAGCCAGGCTGCCTTGCTGTGCATCTATCAGAAAAGCTGCATAGACTCATGGTTTGAAGT
GAACAGATCTTGTCCAGAGCACCTGCTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR216538 representing NM_001168623
Red=Cloning site Green=Tags(s)

MEMNSFCALLVTGQEKAGGGFPRPWLVVGQQRPRDFYRKTGFKCPICSKSVASDEMEMHFIMCLSKPRL
SYNDDVLTKDAGECVICLEELLQGDTIARLPCLCIYHKSCIDSWFEVNRSCPEHPAD

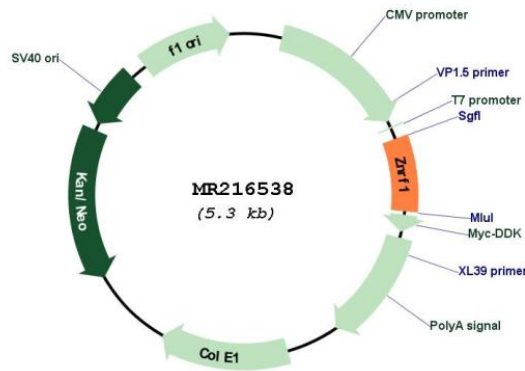
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001168623

ORF Size: 381 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:	<ol style="list-style-type: none">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_001168623.2
RefSeq Size:	3650 bp
RefSeq ORF:	384 bp
Locus ID:	170737
UniProt ID:	Q91V17
Cytogenetics:	8 E1
MW:	14.8 kDa
Gene Summary:	E3 ubiquitin-protein ligase that mediates the ubiquitination of AKT1 and GLUL, thereby playing a role in neuron cells differentiation. Plays a role in the establishment and maintenance of neuronal transmission and plasticity. Regulates Schwann cells differentiation by mediating ubiquitination of GLUL. Promotes Wallerian degeneration, a neurodegeneration disorder, by mediating 'Lys-48'-linked polyubiquitination and subsequent degradation of AKT1 in axons: degradation of AKT1 prevents AKT1-mediated phosphorylation of GSK3B, leading to GSK3B activation and phosphorylation of DPYSL2/CRMP2 followed by destabilization of microtubule assembly in axons.[UniProtKB/Swiss-Prot Function]