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Product datasheet for MC228529

Rnf112 (NM_001291024) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rnf112 (NM_001291024) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rnf112
Synonyms:	bfp; neurolastin; Zfp179; ZNF179
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC228529 representing NM_001291024
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGAGGCCCGTCCTGTCAGTCACTGCTTTTTGTCATCGGCTTGGCAAACGGGAGAGCAAACGAAGCT
TCATGGGAAACAGCAGCAACAGTTGGTCCCATGCATCATTCCCCAAGCTGGAGCTGGGCCTGGGACACCG
TCCCTCCCCAACCCGGGAGCCGCCCACCTGCTCCATCTGTCTGGAAAGGCTTCGAGAGCCCATCTCGCTG
GACTGTGGCCATGACTTCTGCATCCGATGCTTCAGCACACACCGCATCCCAGGCTGTGAGCTACCATGCT
GTCCTGAATGCCGGAAGATCTGTAAGCAAAGGAAGGGCCTCCGCAGTCTAGGGGAAAGGATGAAACTCCT
ACCACAGCGGCCACTGCCCCCTGCACTGCAGGAGACCTGTGCTGTGAGGGCAGAACGTCTGCTGTTGGTA
CGAATCAATGCCTCCGGAGGCCTCATCCTCAGGATGGGCGCCATAAACCGTTGCCTGAAGCATCCACTGG
CCAGGGACACACCCGTCTGCTTATTGGCTGTCCTGGGAGAGCAGCACTCAGGAAAGTCCTTCCTTTTGGA
CCACTTGCTCAGTGGCTTACCAAGCCTGGAATCTGGTGACAGCGGCAGGCCCAGAGCAGAGGGGTCTCTG
CCTGGGATCAGATGGGGCGCTAACGGCCTCACGAGGGGTATCTGGATGTGGAGTCACCCCTTCCTGCTGG
GAAAAGAGGGGAAGAAGGTGGCTGTGTTCTTAGTGGACACGGGGGATGTCATGAGCCCAGAACTGAGCAA
GGAGACAAGGGTCAAGCTCTGTGCTCTCACCATGATGCTCAGTTCCTACCAGATCCTGAATACCTCCCAA
GAGCTGAAGGATACCGATCTGGGCTATCTAGAGATGTTCGTTCACGTGGCTGAGGTGATGGGCAAACATT
ATGGGATGGTACCAATCCAGCATCTGGATCTCTTAGTCCGAGACTCTTCCCATCATAATAAGTCAGGGCA
AGGGCACGTGGGTGACATACTCCAGAAGCTGTCCGGCAAATACCCCAAGGTCCAGGAGCTGCTCCTCGGG
AAACGGGCCCGCTGTTACCTCCTCCCTGCTCCTGAGAGGCAGTGGGTAAACAAAGACCAAGCCAGCCCCA
GAGGCAACACAGAAGATGACTTCTCCCACCATTTCCGGGCCTACATCTTGGACGTGCTGAGCACAGCCCC
TCAGCACGCTAAGAGCCGCTGTCAAGGGTACTGGAGTGAGGGGCGTGCCGTGGCCAGGGGAGACAGACGC
CTGCTCACAGGGCAGCAGCTAGCACAGGAGATCAAGAATCTCTCTGGCTGGATGGGGAAGACTGGGCCCA
GTTTCAACTCTCCTGATGAGATGGCTGCTCAGCTCCATGATCTGAGGAAAGTGGAAGCCGCCAAGAAGGA
GTTCGAGGAGTACGTGAGACAGCAGGACATAGCCACCAAGCGCATCTTCTCTGCACTACGAGTCCTGCCT
GACACGATGAGGAACCTCCTCTCTACCCAGAAGGATGCCATCTTGGCCCGCCATGGTGTGGCCCTGTTGT
GCAAGGAGAGAGAGCAGACCTTGGAGGCCCTGGAAGCCGAGCTGCAGGCAGAAGCCAAGGCCTTCATGGA
CTCCTACACAATGCGCTTCTGTGGCCACCTGGCCGCGGTAGGGGGCGCTGTAGGTGCTGGGCTCATGGGC
CTGGCAGGGGGTGTGGTGGGCGCAGGCATGGCAGCAGCGGCGTTGGCTGCTGAGGCTGGGATGGTAGCAG
CTGGGGCCGCGGTGGGGGCCACCGGGGCTGCTGTGGTTGGGGGTGGTGTGGGTGCTGGTCTGGCCGCCAC
TGTGGGCTGCATGGAGAAAGAGGAAGATGAGAGAGTTCAAGGAGGGGACCGAGAGCCCCTACTCCAGGAG
GAATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001291024

Insert Size: 1896 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001291024.1, NP_001277953.1
RefSeq Size:	3029 bp
RefSeq ORF:	1896 bp
Locus ID:	22671
UniProt ID:	Q96DY5
Cytogenetics:	11 37.96 cM
Gene Summary:	E3 ubiquitin-protein ligase that plays an important role in neuronal differentiation, including neurogenesis and gliogenesis, during brain development. During embryonic development initiates neuronal differentiation by inducing cell cycle arrest at the G0/G1 phase through up-regulation of cell-cycle regulatory proteins (PubMed:21566658, PubMed:28684796). Plays a role not only in the fetal period during the development of the nervous system, but also in the adult brain, where it is involved in the maintenance of neural functions and protection of the nervous tissue cells from oxidative stress-induced damage (PubMed:27918959, PubMed:26792191, PubMed:26951452). Exhibits GTPase and E3 ubiquitin-protein ligase activities. Regulates dendritic spine density and synaptic neurotransmission; its ability to hydrolyze GTP is involved in the maintenance of dendritic spine density (PubMed:26212327). [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) lacks an alternate in-frame exon and uses alternate in-frame splice sites in the 5' coding region, compared to variant 3. It encodes isoform 2, which lacks two separate internal segments and is shorter, compared to isoform 3.