

Product datasheet for **MC201184**

Rnf112 (NM_009548) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rnf112 (NM_009548) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rnf112
Synonyms:	bfp; neurolastin; Zfp179; ZNF179
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC013139 sequence for NM_009548
TCTCTGAGCATCGGACCCCTGCCATTCCAACCTCTCATGCCGAGGCCCGTCTGTCTGAGTCACTGCTTTT
TGTCATCGGCTTGGCAAACGGGAGAGCAAACGAAGCTTCATGGGAAACAGCAGCAAACAGTTGGGTCTCC
CCAGGGAGGAAGCACAAGGCTGGATGGGCCAGGCTGTGCAGGGAGGGACCAGGACAAGCAGGTCCCATGC
ATCATTTCCCAAGCTGGAGCTGGGCTGGGACACCGTCCCTCCCAACCCGGGAGCCGCCACCTGCTCC
ATCTGTCTGAAAAGGCTTCGAGAGCCCATCTCGCTGGACTGTGCCATGACTTCTGCATCCGATGCTTCA
GCACACCCGCATCCCAGGCTGTGAGTACCATGCTGTCTGAATGCCGGAAGATCTGTAAGCAAAGGAA
GGGCTCCGCAGTCTAGGGGAAAGGATGAAACTCTACCACAGCGGCCACTGCCCTGCACTGCAGGAG
ACCTGTGCTGTGAGGGCAGAACGCTGTGCTGTTGGTACGAATCAATGCCTCCGAGGCCTCATCTCAGGA
TGGGCGCCATAAACCGTTGCCTGAAGCATCCACTGGCCAGGGACACACCCGTCTGCTTATTGGTGTCTCT
GGGAGAGCAGCACTCAGGAAAGTCTTCTTTTGGACCACTTGCTCAGTGGCTTACCAAGCTGGAATCT
GGTGACAGCGGCAGGCCAGAGCAGAGGGGTCTCTGCCTGGGATCAGATGGGGCGCTAACGGCTCACGA
GGGGTATCTGGATGTGGAGTCAACCCCTTCTGCTGGGAAAAGAGGGGAAGAAGGTGGCTGTGTTCTTAGT
GGACACGGGGATGTCATGAGCCAGAAGTGTGCAAGGAGACAAGGGTCAAGCTCTGTGCTCTACCATG
ATGCTCAGTTCCTACCAGATCCTGAATACCTCCCAAGAGCTGAAGGATACCGATCTGGGCTATCTAGAGA
TGTTCTGTTACAGTGGCTGAGGTGATGGGCAAACATTATGGGATGTTACCAATCCAGCATCTGGATCTCTT
AGTCCGAGACTCTTCCATCATAATAAGTCAGGGCAAGGGCACGTGGGTGACATACTCCAGAAGCTGTCC
GGCAAATACCCCAAGGTCAGGAGCTGCTCCTCGGAAACGGGCCGCTGTACCTCCTCCTGCTCCTG
AGAGGCAGTGGGTAACAAGACCAAGCCAGCCCCAGAGGCAACACAGAAGATGACTTCTCCACCATTT
CCGGGCTACATCTTGGAGCTGTGAGCACAGCCCTCAGCACGTAAGAGCCGCTGTCAAGGGTACTGG
AGTGAGGGGCGTCCGCTGGCCAGGGGAGACAGACGCTGCTCACAGGGCAGCAGCTAGCACAGGAGATCA
AGAATCTCTCTGGCTGGATGGGGAAGACTGGGCCAGTTTCAACTCTCTGATGAGATGGCTGCTCAGCT
CCATGATCTGAGGAAAGTGAAGCCGCCAAGAAGGAGTTCGAGGAGTACGTGAGACAGCAGGAGTCC
ACCAAGCGCATCTTCTCTGCACTACGAGTCTGCTGACACGATGAGGAACCTCCTCTCTACCCAGAAGG
ATGCCATCTTGGCCCGCATGGTGTGGCCCTGTTGTGCAAGGAGAGAGAGCAGACCTTGGAGGCCCTGGA
AGCCGAGCTGCAGGCAGAAGCCAAGGCCTTCATGGACTCCTACACAATGCGCTTCTGTGGCCACCTGGCC
GCGGTAGGGGCGCTGTAGGTGCTGGGCTCATGGCCTGGCAGGGGGTGGTGGGGCAGGCATGGCAG
CAGCGGCTTGGCTGCTGAGGCTGGGATGGTAGCAGCTGGGGCCGCGTGGGGGCCACCGGGGCTGCTGT
GGTTGGGGTGGTGTGGGTGCTGGTCTGGCCGCACTGTGGGCTGCATGGAGAAAGGAAGATGAGAGA
GTTCAAGGAGGGGACCGAGAGCCCTACTCCAGGAGGAATAGCAGCAAGATGTCGAAGCGTGAATAACGT
GAAAGGCAGTAGGAAGGGTGGGACATCAGGGACTCAGAGGGGACCACGTATATACTGGCCTTGTGAAT
GCCCATGTCAAACACTGGCTGAGCTGGGGTTTACGGTGGGTCCAGAAACCTGAGGAGGCTTTCTGGCC
ACGAGGCTGTACTTGGAGTACAGCGGATAGGGTGAAGGCCTGTTTCTGGCTCTGGATAATTGCTACTCT
CTGGAACCTAGGATCTCCACCACATAAGGCCCCACCTCCTTACCCAGTTCCAGTTTATTTCCCTGGAG
GGCCTGGGCTGGAATTTGCCCTGGATCCAGAACCCATTCTGTTTTACAGTTGGGATAGTCCCAGCAT
AACTGACTTTGGAGCTAGGAGCCCGCTAACAGGGAAGAAAAAGGAGGGGTACAGAGCAGGGATGGGGA
TGATAGACAGAGCTATAATTCTGGAGTGGTGACTGTTTTCCAAAAGTCTCCAGAAGGCCAGGCTGGCT
GGCCTCCCTGCTTTCAGTTGGGTGTCCAGATGTGTCTGAACCGCCCTGTACCCAGCCTCCTGCAG
TCCTCTAAGCCTGTGCCCTGTGCCAAGCCATTTGGATGGATCAACACAGATTACATGCCAAAGAACCA
CACCTCCGATTGCAATCTGTGCTAAAGCAGTCCGTGCCAGTTCTGCCAAAGTGTGGAAAGGAAAGTGC
AGGAAACGAGCTCCGCTTTTTAACATAAGCTTGAAGTGTGGGCTCTGCGCCACACTGTAAAGCCCTT
TGATGCAGCCCTGAACGCCAAGCCTCCAGAAAGCTTGTGGCAGGGGGCTCTCTCGGGGATGGAGA
TTTCTAAAGAGACTTCTGGGCTGTTAAACTATAAAAGATGTTGGGCATATGACCCTTTATTTTATAAAA
AATAAAATGTGTGCGTGTGAATGGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_009548
Insert Size: 1965 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).
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:	BC013139 , AAH13139
RefSeq Size:	2998 bp
RefSeq ORF:	1965 bp
Locus ID:	22671
UniProt ID:	Q96DY5
Cytogenetics:	11 37.96 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) uses alternate in-frame splice sites in the 5' coding region, compared to variant 3. It encodes isoform 1, which lacks an internal segment and is shorter, compared to isoform 3.</p>