

## Product datasheet for **MC228555**

### **Abr (NM\_001291186) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Abr (NM_001291186) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Abr
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228555 representing NM\_001291186  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAATCCTGCTCATCATTTCGCTTCTGCTGTAAGTGCACCTATGCTCTGCTGTACAAGCCAATTGACC  
 GAGTCACCCGGAGCACCTTGGTCTTACGATCTGTTGAAGCACACCCGGTGGACCACCCGGACTACCC  
 GCTGCTTCAGGATGCTCTCCGCATCTCCAGAATTTCTGTCTAGCATTAAAGAGGACATTGATCTCTCGC  
 CGGACTGCAGTACAACCCCAAGGGAGAGACTCGGCAGCTGGTGAAGGACGGCTTCTGGTGGAAATGT  
 CTGAGAGCTCCCGAAGCTGCGGCATGTCTTCTTTCACAGATGTTCTGCTGTGTGCCAAGCTAAAGAA  
 GACCTCAGCAGGAAAGCATCAGCAGTATGACTGTAAGTGGTACATCCCTCTGGCTGACTTAGTGTCCCA  
 TCCCTGAGGAGTCCAGAGCCAGTCCCGAGGTGCACCCCTTCCAGACCACGAGCTCGAGGACATGAAAA  
 CGAAGATCTCTGCCCTCAAGAGTGAATCCAGAAGGAGAAAGCCAACAAGGACAGAGCCGAGCCATTGA  
 GCGCCTCAAAAAGAAGATGTTTGAAGTGAATTTACTGCTGCTCAATCCCAACGATCCCTTCCGG  
 ATACACAATCGGAATGGAAGAGTTACCTGTTTCTTCTGTCTTCTGACTATGAGAGGTGGAGTGGAGAG  
 AAGCGATTCAGAAGCTACAGAAGAAGGATCTCCAGGCCTTTGTCCTGAGCTCTGTGGAGCTCCAGGTGCT  
 CACGGGATCCTGTTTCAAGCTTAGGACTGTGCACAACATTCCTGTACCAGCAATAAAGATGATGATGAG  
 TCTCCAGGACTGTACGGCTTCTTCATGTCATCGTCCACTCTGCCAAGGGCTTTAAACAGTCAGCCAATC  
 TTTACTGTACTCTGGAGGTGGATTCTTTGGCTATTTTGTGAGCAAGCAAGACCAGGGTGTTCGGGA  
 CACGACAGAGCCCAAGTGGGATGAGGAGTTTGAAGTGGAGCTGGAGGGTTCACAGTCCCTGAGGATCCTG  
 TGTTATGAGAAGTGTACGACAAGCAAGGTCAACAAGACAACAATGAGATTGTGACAAGATCATGG  
 GCAAGGGGCAGATCCAGCTGGATCCACAGACAGTAGAAAGCAAGAACTGGCATAACGACGTGATTGAAAT  
 GAATGGGATCAAAGTGGAAATTCATGAAATTTACCAGCCGTGACATGAGCCTGAAGAGGACCCCATCC  
 AAAAAGCAGACAGGCGTCTTTGGAGTGAAGATCAGCGTGGTACCAAGCGGGAGCGCTCCAAGGTGCCCT  
 ACATCGTCCGGCAATGCATAGAAGAGGTGGAGAAGAGGGGCATTGAGGAGTTGGCATCTACAGGATATC  
 AGGGGTGGCCACGGACATCCAGGCCCTGAAGGCTGTCTTTGATGCCAATAACAAGGACATCCTACTGATG  
 CTGAGCGACATGGACATCAACGCCATCGCTGGGACCTCAAGCTATACTTTGGGAGCTGCCTGAGCCCC  
 TCCTTACAGATAGACTTTATCCAGCCTTATGGAGGGCATTGCCCTGTGAGACCTGCTGCCAAGGAGAA  
 CTGCATGATGCACCTACTCCGCTCCCTGCCTGACCCCAACCTCATCACCTTCTTTTCTGCTGGAACAC  
 TTGAAAAGGGTGTGAGAAGGAGCCCATCAACAAGATGTCACCTTCAACAACCTTCCACGGTGTTCGGCC  
 CCACGTTACTGAGACCATCAGAAGTGGAGAGCAAGCACATCTCATATCAGCTGCAGACATCTGGTCCCA  
 TGATGTCATGGCCAGGTCCAGGTCTCTACTACCTGCAGCATCCCCCATTTCTTCTCGCAGAAGTCT  
 AAGCGGAACACACTGTACTTCTCCACAGACGT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001291186

**Insert Size:** 1926 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001291186.1, NP_001278115.1</u>
<b>RefSeq Size:</b>	4463 bp
<b>RefSeq ORF:</b>	1926 bp
<b>Locus ID:</b>	109934
<b>UniProt ID:</b>	<u>Q5SSL4</u>
<b>Cytogenetics:</b>	11 45.92 cM
<b>Gene Summary:</b>	<p>Protein with a unique structure having two opposing regulatory activities toward small GTP-binding proteins. The C-terminus is a GTPase-activating protein domain which stimulates GTP hydrolysis by RAC1, RAC2 and CDC42. Accelerates the intrinsic rate of GTP hydrolysis of RAC1 or CDC42, leading to down-regulation of the active GTP-bound form. The central Dbl homology (DH) domain functions as guanine nucleotide exchange factor (GEF) that modulates the GTPases CDC42, RHOA and RAC1. Promotes the conversion of CDC42, RHOA and RAC1 from the GDP-bound to the GTP-bound form (By similarity). Functions as an important negative regulator of neuronal RAC1 activity (PubMed:20962234). Regulates macrophage functions such as CSF-1 directed motility and phagocytosis through the modulation of RAC1 activity (PubMed:17116687).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (4) lacks part of the 5' coding region, contains an alternate 5'-terminal exon, and uses an alternate start codon, compared to variant 3. The encoded isoform (4) has a shorter and distinct N-terminus, compared to isoform 3.</p>