

Product datasheet for MC218228

Qk (BC053426) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Qk (BC053426) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Qk
 Synonyms: Qkl, 1500005P18
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >BC053426
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGTCGGGAAATGGAAACGAAGGAGAAGCCGAAGCCCACCCAGATTATTTGATGCAGCTGATGAACG
 ACAAGAAGCTCATGAGCAGCCTGCCAACTTCTGCGGGATCTTCAACCACCTCGAGCGGCTGCTGGACGA
 AGAAATTAGCAGAGTACGAAAGACATGTACAATGACACGTTAAATGGCAGTACAGAGAAAAGAAGTGCA
 GAATTGCCTGACGCGGTGGGACCCATTGTTCAAGTTACAAGAGAACTTTATGTGCCTGTAAAAGAATACC
 CTGATTTTAATTTGTTGGGAGAATCCTTGGACCTAGAGGACTTACAGCTAAACAATTGAAGCAGAAAC
 GGGATGTAAAATAATGGTCCGAGGCAAAGGCTCAATGAGGGATAAAAAGAAGGAGGAGCAAAAATAGAGGC
 AAGCCCAATTGGGAGCATCTAAATGAAGACTTACATGTAATCACTGTGGAAGATGCTCAGAACAGAG
 CAGAAATCAAGCTGAAGAGAGCGGTTGAAGAAGTGAAGAAGTTACTGGTACCTGCGGCTGAAGGTGAAGA
 CAGCCTGAAGAAGATGCAGCTGATGGAGCTTGAATTTCTGAATGGCACCTACAGAGACGCCAACATTA
 TCACCAGCCCTTGCCTTTTCTCTTGCAGCAACTGCCAGGCTGCTCCAAGGATCATCTGGGCTGCGC
 CTGTCTCCACCAGCTGCTCTGCGTACACCTACGCCAGCTGGCCCTACCATAATGCCTTTGATCAGACA
 AATACAGACCGCTGTATGCCAAACGGAACCTCTCACCCAACTGCTGCAATAGTCCCTCCAGGGCCTGAA
 GCTGGGTTAATCTACACCCCTATGAATACCCCTACACATTGGCACCAGCTACATCAATCCTTGAGTACC
 CTATTGAACCCAGTGGTGTGTTAGGTGCGGTGGCTACTAAAGTTCGAAGGCACGATATGCGTGTCCATCC
 TTACCAAAGGATTGTGACCGCAGACCGAGCCGCCACCGCAACTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: BC053426



Insert Size:	1026 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:	BC053426 , AAH53426
RefSeq Size:	2208 bp
RefSeq ORF:	1025 bp
Locus ID:	19317
Cytogenetics:	17 7.75 cM
Gene Summary:	RNA-binding protein that plays a central role in myelination (PubMed:10864952, PubMed:11917126). Also required for visceral endoderm function and blood vessel development (PubMed:11892011, PubMed:16470614). Binds to the 5'-NACUAAAY-N(1,20)-UAAAY-3' RNA core sequence (PubMed:16041388). Acts by regulating pre-mRNA splicing, mRNA export, mRNA stability and protein translation, as well as cellular processes including apoptosis, cell cycle, glial cell fate and development (PubMed:10535969, PubMed:12467586, PubMed:11297509, PubMed:11917126, PubMed:15568022). Required to protect and promote stability of mRNAs such as MBP and CDKN1B which promotes oligodendrocyte differentiation (PubMed:10535969, PubMed:15568022). Participates in mRNA transport by regulating the nuclear export of MBP mRNA (PubMed:12467586). May also play a role in smooth muscle development (PubMed:14706070).[UniProtKB/Swiss-Prot Function]