

Product datasheet for **RC205521**

ARMC2 (NM_032131) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARMC2 (NM_032131) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARMC2
Synonyms:	bA787I22.1; SPGF38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC205521 representing NM_032131
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGTCTCCAATGATAAAATGTTAGGAAAACCTGGATCCATTTTATCAACCTTCAGTGTCCAAGCAGA
 AGACCAGTGCAGAAATCATAAGTGAAGCAAGAAATGCATTAAGAACAGTTAGAACCACAAAGACCATTAC
 ACCACAGGAGGCTCAAAGAAAACCTATTCGGACCTGCATCCTCAAGAACATCAGAAAATAGACCTCCTTCC
 TCCTTCAGCCTCCATGCATCCAGTTTTGAGTCATCTGATTCCAGGCCTATCTCTGGCACACGTCTTAGTC
 CACTAGAGCTGAAACCGAAAGTTCAGCATCTCCACCAGAGAGGAGGATTCTGCTTTTCTTTCTTAA
 GCCCCAGTGGACCTGCGAAGATTAGAAGAGTAAGCAACGCCAGGGCTCGCTTATTCAGGGCTGCCTCC
 CAGCGGGCCCTTCTGCCGACAGATCCCTTCTCCCTCCGACTCAAAGAAGACAGTGAATCCAAAGAAA
 CAGTTATGATGGGGACTCTATGGTAAAATAAATGGGATTTATTTAACAAAATCAAATGCTATTTGCCA
 CTTAAAGAGTCACCCACTTCAGTAACCTGATGATGGAGGCTTCAGTGAATAAAGGAGCAAGAAAATGTT
 AAAGGAACAACATCTTTACCATCTCATCTCAAGAAATGGAGGGGACCAGGGGAAGAGACATGCGAGGGCCT
 CATCATGCCCCAGTAGCTCAGACCTGAGCAGGCTGCAAACCAAAGCAGTCCCAAAAGCTGACCTGCAAGA
 AGAGGACGCAGAAATAGAAGTAGACGAAGTCTTTTGGAAATACAAGGATTGTACCGATTTTGCCTGAATTA
 GAAAAGGAAGAAAACATTGAAACGGTTTGTGCTGCTTGCACACAACCTTCATCATGCTTTAGAGGAAGGAA
 ACATGCTTGAAAATAAATTTAAGGGAAGAAGTATCTCCTGAAGACCCTGTGAACTAGTTGATGTTGG
 TTCAGACTCGCTCAGCCTTAACTTGCAAAAATAATTCTAGCACTTAAAGTGAGTAGAAAAGATCTTCTT
 AATGTCTGCAACTTATATTTAAAATAGCAGGAATGAGAAGAATGATTTCTTTGATTCAAATGACAGCA
 TTCTGGAATCATTATTGGAGGTAAGAAGTGAAGACCTGCAAACTAACATGGAAGCTTTTTTACTG
 TATGGGGTCTATAAAGTTCAATTTCTGAAAATCTGGGATTTCTTAATGAAATGATCAGCAAAGGTGCTGTG
 GAAATACTGATAAATTTGATAAAAACAAATAAATGAGAACATCAAGAAATGTGGTACATTTTTGCCTAATT
 CGGGCCACTTGCTAGTCCAGGTGACTGCTACATTGAGAAACTGGTTGATTATCATTAGTAAGAAGTAA
 GTTCTAAACATCAGTGCCTTCCCGACTCTGCACGGCAATGGAACAGTACAAGGGTGACAAGGACGTC
 TGTACCAATATTGCCAGAATATTCAGCAAACCTACTTCTTACCGTACTGCTGCACAGCCTTGCCAGCT
 ATTCCAGATGTTATGCCTATTTTCTGAATCTAATTAACAATACCAGAAGAAGCAGGATTTAGTCGTCGG
 TGTTGTTTTTATTCTTGCAACCTGACGGCAAAAATAACCAGGCTCGTGAACAATTTCCAAAGAGAAA
 GGGAGCATCCAACTCTGCTGTCAATTATCCAGACGTTCCATCAGCTGGATCTGCATTCCAGAAGCCGG
 TGGGCCAACGAGGCGAGCAGCACAGGGCGCAGAGGCCGCCGTGAGAGGCAGAGGACGTGCTCATCAAGCT
 GACTCGTGTGCTGGCCAACATTGCCATCCACCCGGGCGTGGGCCCGGTGCTGGCCGCCAACCCGGGGATA
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 CAGCGACAATCAACAATTTACTACTACCAAGTGAAGAATCCATAATTAAGACAAAAGCTATATAT
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 GGAATCTCTCCAGGACCATGATGTCTGCGATTCATTGTGAGAACATGTCCACAGGTTTCATGATGG
 CGCTGCTGGATGCTCAGCATCAGGATATCTGCTTTCTGCCTGTGGTGTCTCCTCAATCTCACTGTGGA
 TAAAGACAAGCGTGTCACTTTGAAAGAAGGAGGTGGCATTAAAAAGTTAGTGGACTGTTTAAAGAGATTTG
 GGTCTACTGATTGGCAGCTGGCCTGCTTGGTTTGTAATACTTTATGAACTTCAGTGAACAATCACTA
 ATGCTTCGTCATGTTTTGAAAATGAAGACACCAACACTCTTACTCTTGTCTCATATTTTTAGATGA
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 TTCAAACCTGTGGCACAGCAGCTTCTAAACCGAATTCAGAGACATCACACCTTCTGGAACCCCTGCCCA
 TTCCCTCTTT

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205521 representing NM_032131
 Red=Cloning site Green=Tags(s)

MLSPNDKMLGKLDPFYQPSVSKQKTSAEIISEARNALRTVRTQRPFTPQEAQRKLFGPASSRTSENRPSS
 SFSLHASSFESSDSRPISGTRLSPLELKPVPASP TREEDSCFSFPKPPVDPAKIRRVSNARARLFRAS
 QRALLPDRSLPPSDSKTVESKETVMMGDSMVKINGIYLTKSNAIChLkSHPLQLTDDGGFSEIKEQEMF
 KGTTSLPSHLKNGGDQGRHARASSCPSSDSLRLQTKAVPKADLQEEDAIEVDEVFWNTRIVPILREL
 EKEENIETVCAACTQLHHALEEGNMLGNKFKGRSILLKTLCKLVDVGSDSLKLAkIILKkVSRKLL
 NVCKLIFKISRNEKNDLSLIQNDsILESLEVLRSedLQTNMEaFLYCMGSIKFISGNLGFlnEMISKGAV
 EILINLIKQINENIKKCGTFLPNSGHLLVQVTATLRNLVDSSLVRSKFLNISALPQLCTAMEQYKGDkDV
 CTNIARIFSKLTSYRDCCALASYSRCYALFLNLINKYQKKQDLVVRVVFILGNLTAKNNQAREQFSKEK
 GSIQTLTSLFQTFHQDLHSQKPVGQRGEQHRAQRPPSEADVLIKLTRVLANIAIHpgVGPVLAANPGI
 VGLLLTTLEYKSLDDCEELVINATATINNLsYYQVKNSI IQDKKLYIAELLLKLLVSNMMDGILEAVRVF
 GNLsQDHDVCDFI VQNNVHRFMALLDAQHQDICFSACGVLLNLTVDKDKRVILKEGGGIKkLVDCRLD
 GPTDWQLACLvCKTLWNFSENITNASSCFGNEDTNTLLLLLSSFLDEELALDGSFDPDLKkNYHKLHWETE
 FKPVaQQLLNRIQRHHTFLEPLIPSF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8119_h06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

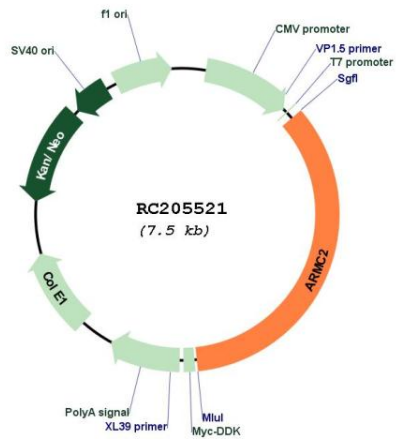
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_032131
ORF Size:	2601 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_032131.6
RefSeq Size:	3736 bp
RefSeq ORF:	2604 bp
Locus ID:	84071
UniProt ID:	Q8NEN0
Cytogenetics:	6q21
MW:	97.3 kDa
Gene Summary:	Required for sperm flagellum axoneme organization and function (By similarity). Involved in axonemal central pair complex assembly and/or stability (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC205521