

Product datasheet for **RG206951**

ARMC3 (NM_173081) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARMC3 (NM_173081) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARMC3
Synonyms:	CT81; KU-CT-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206951 representing NM_173081
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGTAAAAAGATAAAGAAGGAAGTAGAGCCTCCTCCTAAGGATGTGTTTGACCCATTAATGATTGAAA
 GCAAAAAAGCAGCAACTGTGGTGTAAATGCTTAATTCTCCAGAAGAGGAAATTTGGCTAAAGCATGTGA
 AGCCATTTATAAATTTGCTTTAAAAGGTGAGGAAAATAAAAACAACCCCTCCTTGAACCTGGAGCTGTGGAA
 CCTTTAACTAAGCTACTCACCCATGAAGACAAAATTGTAAGAAGAAATGCTACTATGATATTTGGAATCC
 TGGCTTCTAATAATGATGTTAAAAAATTGTTAAGGGAGTTAGATGTGATGAATTCGTCATTGCCAGCT
 CGCTCCAGAAGAAGAAGTAGTTATCCATGAGTTTGCTAGTCTTTGTCTAGCAAACATGTCTGCAGAGTAC
 ACCAGTAAAGTGCAAATATTTGAACATGGGGGATTAGAGCCACTCATCAGACTACTGAGTAGCCCTGACC
 CGGATGTAAGAAGAAGTCTATGGAATGCATTTACAACCTGGTGCAGGATTTTCAGTGTGAGCTAAACT
 TCAAGAATAAATGCAATACCTCCTATCTTAGATCTCTTGAAGTCAGAATATCCAGTGATTGAGTTGTTG
 GCTCTCAAAACCTTAGGTGTTATTGCAAATGATAAGGAGTCTCGAACAATGCTAAGAGACAATCAAGGAT
 TGGACCATCTTATTAAGATCCTAGAAAATAAGGAATTGAATGACCTTCATATAGAAGCACTTGCAGTGAT
 AGCCAATTGCCTTGAAGACATGGATACTATGGTGCAGATTGAGCAGACAGGGGGTCTTAAAAAGCTCCTG
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 GATTTTTCAATAATCAGGGGATCCACAGTTAATTCAGTTGCTAAAAAGTGACAATGAAGAGGTACGGG
 AAGCAGCAGCTTAGCCCTGGCAACCTAACCACTTGAACCCGCTAATGCAAAACGCTGCTGCTGCTACA
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 GTGTGACGTTGAAGCCCGGACTGAGTTAAGAAATCTGGTGGATTGGAGCCCTGGTAGAGCTGCTACGC
 TCCAAGAATGATGAAGTGAAGGACAGCCAGTTGGGCAGTGATGGTCTGTGCTGGTGACGAGCTGACGG
 CCAATGAATTATGAGGCTCGGGCTTTAGATATCCTTGAAGAAGTTAACGTATCAGGAACCTCGAAAAA
 TAAATTCAGTGAGGCAGCTTATAATAAGTTGCTCAATAACAATCTTCCCTGAAATACAGCCAGACTGGC
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 TCTTCTACCATCGAGCTTTGCTTTTCAAGGCTCTGGCTGATAGAATTGGCATTGGTTGCTCCCTAGTTTCG
 CGGAGAGTACGGTAGAGCGTGAATGAAGTCATGCTGCAGAATGACTCTCGGAAGGGAGTGATTGGGGGC
 CTCCCGCTCCTGAGATGTACGTGATTGACCTCATGTTCCATCCAGGTGGACTGATGAAGTTGAGAAGTC
 GAGAGGCTGATCTTTACAGATTCATT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG206951 representing NM_173081
 Red=Cloning site Green=Tags(s)

MGKKIKKEVEPPPVDVFDPLMIESKKAATVVLMLNSPEEEILAKACEAIYKFALKGEENKTTLLELGAVE
 PLTKLLTHEDI VRRNATMIFGILASNNDVKLLRELDVMNSVIAQLAPEEEVVIHEFASLCLANMSAEY
 TSKVQIFEHGGLEPLIRLLSSPDPDVKKNSMECIYNLVQDFQCRAKLQELNAIPPILDLLKSEYPVIQLL
 ALKTLGVIANDKESRTMLRDNQGLDHLIKILETKELNDLHIEALAVIANCLEDMDTMVQIQQTGGKKLL
 SFAENSTIPDIQKNAAKAITKAAYPDENRKL FHEQEVEKCLVALLGSENDGT KIAASQAI SMCENSGSK
 DFFNNOGIPQLIQLLKSDNEEVREAAALALANL TTCNPANANAAA EADGIDPLINLLSSKRDGAIANAAT
 VLTNMAMQEPLRLNIQNHDIMHAIISPLRSANTVVQSKAALAVTATACDVEARTEL RNSGGLEPLVELLR
 SKNDEVKRHASWAVMVCAGDEL TANELCRLGALDILEEVNVS GTRKNKFSEAAYNKLLNNNL SLKYSQTG
 YLSSSNIINDGFYDYGRINPGTKLLPLKELCLQEPSDLRAVLL INSKSYVSPSSMEDKSDVGYGQSISS
 SSSLRRSSKEKNKNSYHFSAGFGSPIEDKSEPASGRNTVLSK SATKEKGWRKSKGKKEEKVKEEEVVM
 VVPKFVGESSDKEWCPSPDFSMYVYEVTKSILPITNIKEQIEDLAKYVAEKMGKIPKEKLPDFSWE
 LHISELKFQLKSNVPIGHVKKGIFYHRALLFKALADRI GIGCSLVRGEYGRAWNEVMLQNSRKGVIIG
 LPAPEMYVIDLMFHPGGLMKLRSREADLYRFI

TRTRPLE - GFP Tag - V

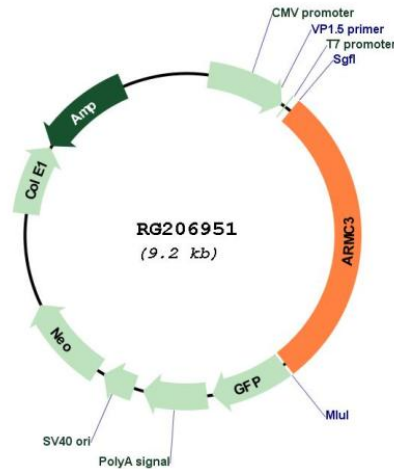
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_173081

ORF Size: 2616 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:

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_173081.2](#)

RefSeq Size: 2831 bp

RefSeq ORF: 2619 bp

Locus ID: 219681

UniProt ID: [Q5W041](#)

Cytogenetics: 10p12.2

Gene Summary: Armadillo/beta-catenin (CTNNB1; MIM 116806)-like (ARM) domains are imperfect 45-amino acid repeats involved in protein-protein interactions. ARM domain-containing proteins, such as ARMC3, function in signal transduction, development, cell adhesion and mobility, and tumor initiation and metastasis (Li et al., 2006 [PubMed 16915934]).[supplied by OMIM, Mar 2008]