

Product datasheet for **RC203695**

C6orf211 (ARMT1) (NM_024573) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C6orf211 (ARMT1) (NM_024573) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C6orf211
Synonyms:	C6orf211
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC203695 representing NM_024573
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGTCGTCGCCGCGTCTCTCTCAGGACAGGACGTGGGATCATTTCATATCTTACAATTAAGACA
 GAATACCACAGATCTTAACTAAGGTTATTGATACATTGCATCGACATAAAAGTGAATTTTTGAGAAACA
 CGGAGAGGAAGCGTGAAGCTGAAAAGAAAGCTATCTCTCTCCTTTCTAAATTACGGAATGAATTGCAA
 ACAGATAAACCATTTATCCCTTGGTTGAGAAATTTGTTGATACTGATATATGGAATCAGTACCTAGAAT
 ATCAACAGAGTCTTTTAAATGAAAGTGATGAAAAATCAAGATGGTTCTACTACCGTGGTTGTTGGTAGA
 ATGTTACATGTATCGAAGAATTCATGAAGCAATTATCCAGAGTCCACCAATCGATTACTTTGATGTATTT
 AAAGAATCAAAAGAGCAAAATTTCTATGGGTACAGGAATCCATCATTGCTTTATGTACTCACCTGCAAC
 AATTGATAAGAACTATTGAAGACCTAGATGAAAATCAGCTGAAAGATGAGTTTTTTAACTTCTGCAGAT
 TTCCTGTGGGAAATAAGTGTGATCTGTCTCTCAGGTGGAGAAAGTAGTTCTCAGAATACCAATGTA
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 GCAATTGCAAGAAAACAAGAGAAAAAGCTTCTGCTACTAGAGTGTATATTGTTCTCGATAATTCTGGATT
 TGAGCTTGTTACAGATTTAATATTAGCCGACTTCTTGTGTCTCTGAACTGGCTACTGAGGTTCATTTT
 TATGGA AAAACAATTCCATGGTTTGTCTGATACTACTATACATGATTTTAATTGGTTAATTGAACAGG
 TAAACACAGTAATCATAAGTGGATGTCCAAGTGTGGGCTGACTGGGAAGAGTATATTAATGGGTAA
 ATGGGTTTACCACAATCATATATTTGGACTCTGCCTCATGAGTACTGTGCAATGCCTCAGGTTGCACCT
 GACTTATATGCTGAACTACAGAAGGCACATTTAATTTTATTCAAGGTGATTTGAATTACAGGAAGTTGA
 CAGGTGACAGAAAATGGGAGTTTCTGTTCCATTTATCAGGCTCTGAATGGCTTCCATCCTGCACCACT
 CTGTACCATAAGAACATTAAAAGCTGAAATTCAGGTTGGTCTGCAGCCTGGGCAAGGGGAACAGCTCCTG
 GCCTCTGAGCCAGCTGGTGGACCACTGGAAAATATGGAATATTTCAGTACGATGGTCCCCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203695 representing NM_024573
 Red=Cloning site Green=Tags(s)

MAVVPASLSGQDVGSFAYLTIKDRIPQILTKVIDTLHRHKSEFFEKHGEEGVAEKKAISLLSKLRNELQ
 TDKPFIPLVEKFVDTDIWNQYLEYQQSLLNESDGKSRWFYSPWLLVECYMYRRIHEAIIQSPPIDYFDVF
 KESKEQNFYGSQESIALLCTHLQQLIRTIEDLDENQLKDEFFKLLQISLWGNKCDLSLGGESSQNTNV
 LNSLEDLKPFIILLNDMEHLWSLLSNCKKTREKASATRVYIVLDNSGFELVTDLILADFLSSELATEVHF
 YGKTIPWFVSDTTIHDFNWLIEQVKHSNHKWSKCGADWEEYIKMGKWVYHNHIFWTLPHEYCAMPQVAP
 DLYAELQKAHLILFKGDLNRYKLTGDRKWEFVVPFHQALNGFHPAPLCTIRTLKAEIQVGLQPGQGEQLL
 ASEPSWTTGKYGIFQYDGPL

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

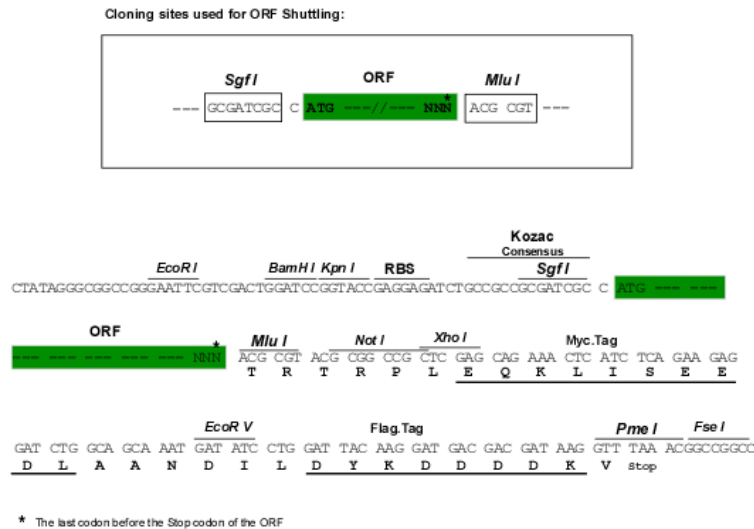
Chromatograms:

https://cdn.origene.com/chromatograms/mg2556_e01.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_024573

ORF Size: 1323 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_024573.3](#)

RefSeq Size: 2572 bp

RefSeq ORF: 1326 bp

Locus ID: 79624

UniProt ID: [Q9H993](#)

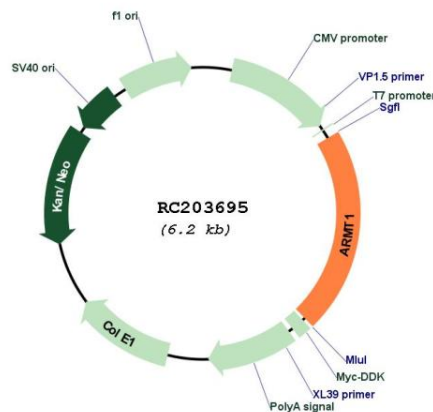
Cytogenetics: 6q25.1

Domains: DUF89

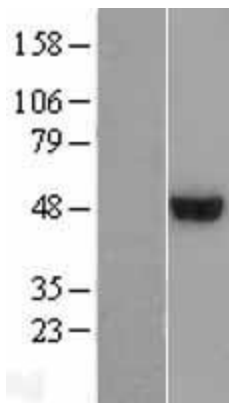
MW: 51 kDa

Gene Summary: Metal-dependent phosphatase that shows phosphatase activity against several substrates, including fructose-1-phosphate and fructose-6-phosphate (By similarity). Its preference for fructose-1-phosphate, a strong glycosylating agent that causes DNA damage rather than a canonical yeast metabolite, suggests a damage-control function in hexose phosphate metabolism (By similarity). Has also been shown to have O-methyltransferase activity that methylates glutamate residues of target proteins to form gamma-glutamyl methyl ester residues (PubMed:25732820). Possibly methylates PCNA, suggesting it is involved in the DNA damage response (PubMed:25732820).[UniProtKB/Swiss-Prot Function]

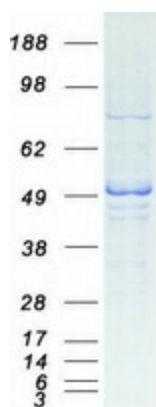
Product images:



Circular map for RC203695



Western blot validation of overexpression lysate (Cat# [LY403003]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203695 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ARMT1 protein (Cat# [TP303695]). The protein was produced from HEK293T cells transfected with ARMT1 cDNA clone (Cat# RC203695) using MegaTran 2.0 (Cat# [TT210002]).