

Product datasheet for **RC205817**

TUG (ASPCR1) (NM_024083) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TUG (ASPCR1) (NM_024083) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TUG
Synonyms:	ASPCR1; ASPL; ASPS; RCC17; TUG; UBXD9; UBXN9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC205817 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCCCGCAGGCGGGAGGCTCCGCGTGTGCTGGCCCCGAACGGCCGGCCACACGG
 TGAAGGTGACCCGAGCACCGTCTGCTTCAGGTTCTGGAGACACGTGCCGGCGCAGGACTTCAACCC
 CTGTGAATATGATCTGAAGTTTCAGAGGAGCGTCTGACCTTTCTCTCAGTGGAGATTTGCCAACCTG
 CCCAACATGCCAAGCTGGAGATGGTGCCCGTCCCGGAGCCGTGAGGGGCTGAGAACATGGTTCGCA
 TCGCTTTGACGCTGGACGATGGCTCGAGGTTGCAGGACTTTTCTGTTCCAGGCCAGACCTCTGGGAGCT
 TCTCAGCCATTTCCACAGATCAGGGAGTGCCTGCAGCACCCGGCGGGGCCACCCAGTCTGCGTGTAC
 ACGAGGGATGAGGTGACGGTGAAGCTGCCCTGCGGGGCACGACGCTGCAGTCGCTGGCCCTGACCGGG
 GCAGCGCCACCATCAGGTTTGTATGAAGTGTACGACCCCGTGGCAAGACCCAGGAAGCCTGGGCTC
 GTCAGCGTCGGCTGGCCAGGCGCCAGCGCTCCACTTCCCTTGAATCTGGGAGCTCAGCCGCGGC
 GACTTGAGCCGTCGGGAGGACCGGACACCTCAGGGCCCTGCTGCGAGCACACTCAGGAGAAGCAGAGCA
 CAAGGGCACCCGAGCTGCCCCCTTTGTTCTTTCTCGGGTGGGGACAGAGACAGGGGGGCCCTCTCGG
 GCCACGAGGCCTCTGACATCATCTTACGTAAGTTGCCGAAGTCCCTCTCCAGCCCTGGAGGCCCTCC
 AAGCCAAAGAAGTCCAAGTCGGGCCAGGATCCCCAGCAGGAGCAGGAGCAGGAGCGGGAGCGGGATCCCC
 AGCAGGAGCAGGAGCGGGAGCGGCCCGTGGACCGGAGCCCGTGGACCGGAGCCGTTGGTGTGCCACCC
 CGACCTGGAGGAGCGGCTGCAGGCTGGCCAGCGGAGCTGCCTGATGAGTTCTTTGAGCTGACGGTGGAC
 GACGTGAGAAGACGCTTGGCCAGCTCAAGAGTGAGCGGAAGCGCTGGAAGAAGCCCCCTTGGTGACCA
 AGCCCTTCAGGGAGGCGCAGATAAAGGAGAAGCTGGAGCGCTACCCAAAGTGGCTCTGAGGGTCTGTT
 CCCCGACCGCTACGTCTACAGGGCTTCTCCGCCCCAGCGAGACAGTGGGGGACTTGCAGACTTCGTTG
 AGGAGCCACCTGGGAACCCGAGCTGTATTTACCTGTTTACACCCCTCCAAAAACAGTCTGGACG
 ACCACACGACACCTCTTTAGGCGAACCTCTTCCGCGCGCTCTGGTGCACCTGGGAGCCGAGGAGCC
 GGCAGGTGTCTACCTGGAGCCTGGCTGCTGGAGCATGCCATCTCCCATCTGCGGCCGACGTGCTGGT
 GCCAGGTACATGTCCAGGGCCGCGGGTCCCCTTCCCATTTGCCAGCCCTGACCCTGCACCTAAGTCTG
 AGCCAGCTGCTGAGGAGGGGCGCTGGTCCCCTGAGCCATCCAGGGACGGCCAGCCCGTGAAGAG
 GAGCCTGGCAAGGTGCCAAGTGGCTGAAGTGCAGCCAGCAAGAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205817 protein sequence
 Red=Cloning site Green=Tags(s)

MAAPAGGGGSAVSVLAPNGRRHTVKVTPSTVLLQVLEDTCRRQDFNPCEYDLKFQRSVLDLSLQWRFANL
 PNNAKLEMVPASRSREGPENMVRIALQLDDGSRLQDSFCSGQTLWELLSHFPQIRECLQHPGGATPVCVY
 TRDEVTGEAALRGTTLQSLGLTGGSATIRFVMKCYDPVGKTPGSLGSSASAGQAAASAPLPLESGELSRG
 DLSRPEDADTSGPCEHTQEKEQSTRAPAAAPFVPFSGGGQRQGGPPGPTPLTSSAKLPKSLSSPGGSP
 KPKKSKSGQDPQQEQEQERERDPQQEQERERPDREPDREPVVCHPDLEERLQAWPAELPDEFFELTVD
 DVRRRLAQLKSERKRLLEEAPLVTKAFREAQIKEKLERYPKVALRVLFPDRYVLQGFRRPSETVGDRLDFV
 RSHLGNPELSFYLFITPPKTVLDDHTQTLFQANLFPAAALVHLGAEPAAGVYLEPGLLEHAI SPSAADVLV
 ARYMSRAAGSPSPLPAPDPAPKSEPAEEGALVPPEPIPGTAQPVKRSLGKVPKWLKLPASKR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6708_a01.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:

ACCN: NM_024083

ORF Size: 1659 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_024083.4](#)
RefSeq Size: 1858 bp

RefSeq ORF: 1662 bp

Locus ID: 79058

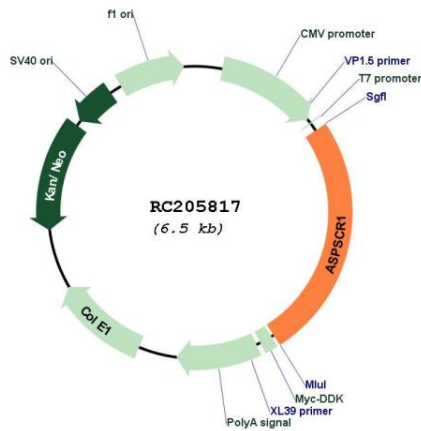
UniProt ID: [Q9BZE9](#)

Cytogenetics: 17q25.3

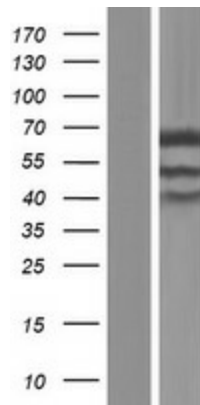
MW: 60.2 kDa

Gene Summary: The protein encoded by this gene contains a UBX domain and interacts with glucose transporter type 4 (GLUT4). This protein is a tether, which sequesters the GLUT4 in intracellular vesicles in muscle and fat cells in the absence of insulin, and redistributes the GLUT4 to the plasma membrane within minutes of insulin stimulation. Translocation t(X;17) (p11;q25) of this gene with transcription factor TFE3 gene results in a ASPSCR1-TFE3 fusion protein in alveolar soft part sarcoma and in renal cell carcinomas. Multiple alternatively spliced transcript variants have been found. [provided by RefSeq, Oct 2011]

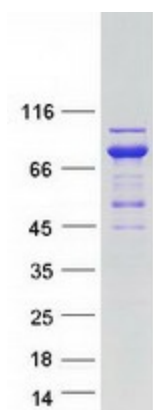
Product images:



Circular map for RC205817



Western blot validation of overexpression lysate (Cat# [LY411356]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205817 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ASPSCR1 protein (Cat# [TP305817]). The protein was produced from HEK293T cells transfected with ASPSCR1 cDNA clone (Cat# RC205817) using MegaTran 2.0 (Cat# [TT210002]).