Product datasheet for RC211076

UBL5 (NM_001048241) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBL5 (NM_001048241) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UBL5
Synonyms:	HUB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211076 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGATCGAGGTTGTTTGCAACGACCGTCTGGGGAAGAAGGTCCGCGTTAAATGCAACACGGATGATACCA TCGGGGACCTTAAGAAGCTGATTGCAGCCCAAACTGGTACCCGTTGGAACAAGATTGTCCTGAAGAAGTG GTACACGATTTTTAAGGACCACGTGTCTCTGGGGGACTATGAAATCCACGATGGGATGAACCTGGAGCTT TATTATCAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC211076 protein sequence Red=Cloning site Green=Tags(s) MIEVVCNDRLGKKVRVKCNTDDTIGDLKKLIAAQTGTRWNKIVLKKWYTIFKDHVSLGDYEIHDGMNLEL YYQ TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6379_c06.zip
Restriction Sites:	SgfI-MluI

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Cloning Scheme:
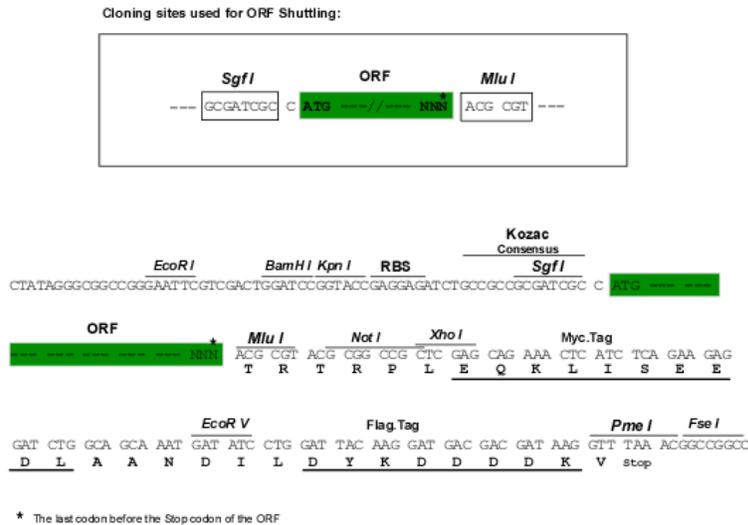
|	
ACCN:	NM_001048241
ORF Size:	219 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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_001048241.3
RefSeq Size:	469 bp

RefSeq ORF:	222 bp
Locus ID:	59286
UniProt ID:	Q9BZL1
Cytogenetics:	19p13.2
MW:	8.5 kDa

Gene Summary: This gene encodes a member of a group of proteins similar to ubiquitin. The encoded protein is not thought to degrade proteins like ubiquitin but to affect their function through being bound to target proteins by an isopeptide bond. The gene product has been studied as a link to predisposition to obesity based on its expression in Psammomys obesus, the fat sand rat, which is an animal model for obesity studies. Variation in this gene was found to be significantly associated with some metabolic traits (PMID: 15331561) but not associated with childhood obesity (PMID: 19189687). Pseudogenes of this gene are located on chromosomes 3, 5 and 17. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jan 2013]

Product images:
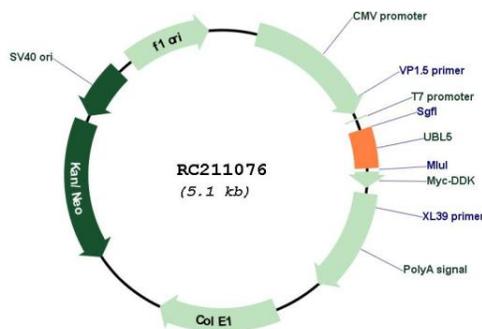
Circular map for RC211076
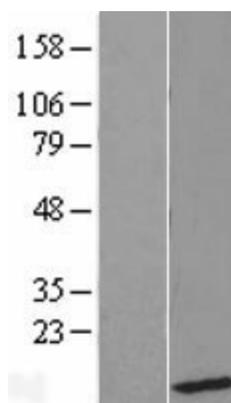
Western blot validation of overexpression lysate (Cat# [LY420793]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211076 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).
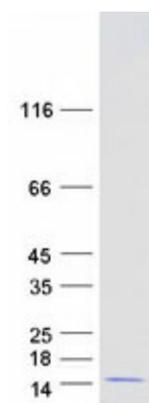
Coomassie blue staining of purified UBL5 protein (Cat# [TP311076]). The protein was produced from HEK293T cells transfected with UBL5 cDNA clone (Cat# RC211076) using MegaTran 2.0 (Cat# [TT210002]).