

## Product datasheet for **RC218267**

### UNC5B (NM\_170744) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UNC5B (NM_170744) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UNC5B
Synonyms:	p53RDL1; UNC5H2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC218267 representing NM\_170744  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGGCCCGGAGCGGAGCTCGGGCGCGCTGCTGCTGGCACTGCTGCTGCTGGACCCGAGGCTGA  
 GCCAAGCAGGCACTGATTCTGGCAGCGAGGTGCTCCCTGACTCCTTCCCGTCAGCGCCAGCAGAGCCGCT  
 GCCCTACTTCTGCAGGAGCCACAGGACGCTACATTGTGAAGAACAAGCCTGTGGAGCTCCGCTGCCGC  
 GCCTTCCCGCCACACAGATCTACTTCAAGTGCAACGGCGAGTGGGTGAGCCAGAACGACCACGTACAC  
 AGGAAGGCTGGATGAGGCCACCGGCTGCGGGTGCAGGAGTGCAGATCGAGGTGTCGCGGAGCAGGT  
 GGAGGAGCTTTGGGCTGGAGGATTACTGGTGCCAGTGCCTGGCTGGAGCTCCGCGGGCACCACCAAG  
 AGTCGCGGAGCCTACGTCCGCATCGCTACCTGCGCAAGAACTTCGATCAGGAGCCTCTGGGCAAGGAGG  
 TGCCCTGGACCATGAGGTTCTCCTGCAGTGCCCGCCCGGAGGGGGTGCCTGTGGCCGAGGTGGAATG  
 GCTCAAGAATGAGGATGTCATCGACCCACCCAGGACACCAACTTCTGCTCACCATCGACCACAACCTC  
 ATCATCCGCCAGGCCCGCTGTCGGACACTGCCAACTATACTGCGTGGCCAAGAACATCGTGGCCAAC  
 GCCGGAGCACCCTGCCACCGTCATCGTCTACGTGAATGGCGGCTGGTCCAGCTGGGCAGAGTGGTCAAC  
 CTGCTCCAACCGCTGTGGCCGAGGCTGGCAGAAGCGCACCCGGACCTGCACCAACCCCGCTCCACTCAAC  
 GGAGGGGCTTCTGCGAGGGCCAGGCAATTCAGAAGACCGCTGCACCACCATCTGCCAGTCGATGGGG  
 CGTGGACGGAGTGGAGCAAGTGGTCAGCCTGCAGCACTGAGTGTGCCACTGGCGTAGCCGCGAGTGCAT  
 GGCGCCCCACCCAGAACGGAGGCCGTGACTGCAGCGGGACGCTGCTCGACTCTAAGAAGTGCACAGAT  
 GGGCTGTGCATGCAAAAATAAGAAACTTAAGCGACCCCAACAGCCACCTGCTGGAGGCTCAGGGGATG  
 CGGCGCTGTATGCGGGGCTCGTGGTGGCCATCTCGTGGTCTGGCAATCCTCATGGCCGTTGGGGTGGT  
 GGTGTACCGCCGCAACTGCCGTGACTTCGACACAGACATCACTGACTCATCTGCTGCCCTGACTGGTGGT  
 TTCACCCCGTCAACTTTAAGACGGCAAGGCCAGCAACCCGAGCTCCTACACCCTCTGTGCCTCCTG  
 ACCTGACAGCCAGCGCCGCATCTACCGGACCCGTGTATGCCCTGCAGGACTCCACCGACAAAATCCC  
 CATGACCAACTCTCCTCTGCTGGACCCCTTACCCAGCCTTAAGGTCAAGGTCTACAGCTCCAGCACCAG  
 GGCTCTGGGCCAGGCTGGCAGACGGGGTGCCTGCTGGGGTCTTGCCGCTGGCACATACCCTAGCG  
 ATTTCCGCGGGACACCCACTTCTGCACCTGCGCAGCGCCAGCCTCGGTTCCAGCAGCTCTTGGGCT  
 GCCCGAGACCCAGGAGCAGCGTCAGCGGCACCTTTGGCTGCCTGGGTGGGAGGCTCAGCATCCCCGGC  
 ACAGGGGTGAGCTTGTGGTCCCAATGGAGCCATTTCCAGGGCAAGTCTACGAGATGTATCTACTCA  
 TCAACAAGGCAGAAAGTACCCTCCCGCTTTCAGAAGGGACCCAGACAGTATTGAGCCCTCGGTGACCTG  
 TGGACCCACAGGCTCCTGCTGTGCCGCCCCGTATCCTCACCATGCCCACTGTGCCGAAGTCAAGTCC  
 CGTACTGGATCTTTCAGCTCAAGACCCAGGCCACCAGGGCCACTGGGAGGAGGTGGTACCCTGGATG  
 AGGAGACCCTGAACACACCCTGCTACTGCCAGCTGGAGCCAGGGCTGTACATCCTGCTGGACCAGCT  
 GGGCACCACGTGTTACGGGCGAGTCTATTCCCGCTCAGCAGTCAAGCGGCTCCAGCTGGCCGTCTTC  
 GCCCGCCCTCTGCACCTCCCTGGAGTACAGCCTCCGGTCTACTGCCTGGAGGACACGCTGTAGCAC  
 TGAAGGAGGTGCTGGAGCTGGAGCGGACTTGGGCGGATACTTGGTGGAGGAGCCGAAACCGCTAATGTT  
 CAAGGACAGTTACCACAACCTGCGCTCTCCCTCATGACCTCCCCATGCCATTGGAGGAGCAAGCTG  
 CTGGCCAAATACCAGGAGATCCCCTTCTATCACATTTGGAGTGGCAGCCAGAAGGCCCTCCACTGCACTT  
 TCAACCCTGGAGAGGCACAGCTTGGCCTCCACAGAGCTCACCTGCAAGATCTGCGTGCAGCAAGTGAAGG  
 GGAGGGCCAGATATTCCAGCTGCATACCACTCTGGCAGAGACACCTGCTGGCTCCCTGGACACTCTCTGC  
 TCTGCCCTGGCAGCACTGTACCAACCCAGCTGGGACCTTATGCCTTCAAGATCCCACTGTCCATCCGCC  
 AGAAGATATGCAACAGCCTAGATGCCCAACTCACGGGCAATGACTGGCGGATGTTAGCACAGAAGCT  
 CTCTATGGACCGTACCTGAATTACTTTGCCACCAAGCGAGCCACGGGTGTGATCCTGGACCTCTGG  
 GAAGCTCTGCAGCAGGACGATGGGGACCTCAACAGCCTGGCGAGTGCCTTGGAGGAGATGGCAAGAGTG  
 AGATGCTGGTGGCTGTGGCCACCGAGGGGACTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC218267 representing NM\_170744  
 Red=Cloning site Green=Tags(s)

MGARSGARGALLLALLLCWDPRLSQAGTDSGSEVL PDSFSPSAPAEPLPYFLQEPQDAYIVKNKPVELRCR  
 AFPATQIYFKCNGEWVSQNDHVTQEGLDEATGLRVREVQIEVSRQQVEELFGLLEDYWCQCVAWSSAGTTK  
 SRRAYVRIAYLRKNFDQEPLGKEVPLDHEVLLQCRPPEGVPAEVEWLKNEDVIDPTQDTNFLTIDHNL  
 IIRQARLSDTANYTCVAKNIVAKRRSTTATVIVYVYVNGGWSSWAEWSPCSNRCGRGWQKRTRTCTNPAPLN  
 GGAFCEGQAFQKTACTTICPVDGAWTEWSKWSACSTECAHWSRECMAPPQNGGRDCSGTLLDSKNCTD  
 GLCMQNKKTLSDPNSHLLEASGDAALYAGLVVAIFVVVAILMAVGVVVYRRNCRDFDITDSSAALTGG  
 FHPVNFKTARPSNPQLLHPSVPPDLTASAGIYRGPVYALQDSTDKIPMTNSPLLDPLPSLKVKVYSSSTT  
 GSGPGLADGADLLGVLPPTGYPDFARDTHFLHLSASLGSQQLLGLPRDPGSSVSGTFGCLGGRLSIPG  
 TGVSLLPNGAIPQGKFYEMYL INKAESTLPLSEGTQTVLSPSVTCGPTGLLLCRPVILTMPHCAEVSA  
 RDWIFQLKTAHQGHWEVVTLDEETLNTPCYCQLEPRACHILLDQLGTIVFTGESYSRSYAVKRLQLAVF  
 APALCTSLEYSRKYCLEDPVALKEVLELERTLGGYLVEEPKPLMFKDSYHNLRLSLHDLPHAHWSKLL  
 LAKYQEIFPHYIWSGSQKALHCTFTLERHSLASTELETCKICVRQVEGEGQIFQLHTTLAETPAGSLDTLC  
 SAPGSTVTTQLGPYAFKIPLSIRQKICNSLDAPNSRGNDRMLAQKLSMDRYLNYFATKASPTGVILDLW  
 EALQQDDGDLNSLASALEEMGKSEMLVAVATGDGC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk8012\\_g09.zip](https://cdn.origene.com/chromatograms/mk8012_g09.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



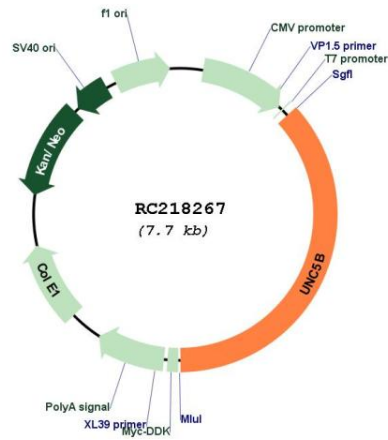
\* The last codon before the Stop codon of the ORF

ACCN: NM\_170744

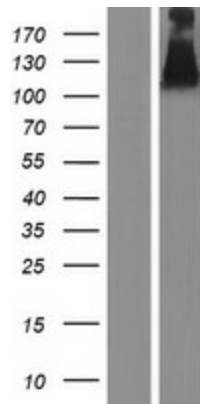
ORF Size: 2835 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_170744.2</a> , <a href="#">NP_734465.2</a>
<b>RefSeq Size:</b>	3935 bp
<b>RefSeq ORF:</b>	2838 bp
<b>Locus ID:</b>	219699
<b>UniProt ID:</b>	<a href="#">Q8IZJ1</a>
<b>Cytogenetics:</b>	10q22.1
<b>Domains:</b>	DEATH, tsp_1, ZU5, ig, IGc2, IG
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Axon guidance
<b>MW:</b>	103.5 kDa
<b>Gene Summary:</b>	This gene encodes a member of the netrin family of receptors. This particular protein mediates the repulsive effect of netrin-1 and is a vascular netrin receptor. This encoded protein is also in a group of proteins called dependence receptors (DpRs) which are involved in pro- and anti-apoptotic processes. Many DpRs are involved in embryogenesis and in cancer progression. Two alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Oct 2011]

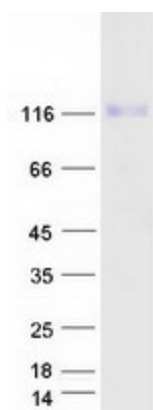
Product images:



Circular map for RC218267



Western blot validation of overexpression lysate (Cat# [LY406864]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218267 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UNC5B protein (Cat# [TP318267]). The protein was produced from HEK293T cells transfected with UNC5B cDNA clone (Cat# RC218267) using MegaTran 2.0 (Cat# [TT210002]).