

Product datasheet for **MG209291**

Unc93b1 (NM_019449) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Unc93b1 (NM_019449) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Unc93b1
Synonyms:	Unc-93B1; Unc93b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209291 representing NM_019449
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGTGGAGCCTCCGCTCTACCTGTGGCCGGGGCCGGGTCTCAAGGGGATGAAGACCGGCACG
 GAGTTCCTGATGGGCCAGAGGCTCCCTTGACGAACCTCGTGGGTGCGTACCCCAACTACAATGAGGAGGA
 GGAAGAGCGCCGCTACTACCGCCGAAGCGCCTCGGAGTGGTCAAGAACGTGCTGGCGGCCAGCAGGGT
 GTCACCCTTACTTACGGCGTCTACCTGGGTCTCCTGCAGATGCAACTGATCCTGCACTATGATGAGACCT
 ACAGAGAGGTGAAGTATGGCAACATGGGGCTGCCGGACATCGATAGCAAGATGCTGATGGGTATCAACGT
 GACGCCTATCGTGCCTGCTCTACACACCTGTGCTCATCAGGTTTTTTGGTACCAAGTGGATGATGTTT
 TTGGCTGTGGGCATCTATGCCCTCTTTGTCTCTACCAACTACTGGGAACGCTACTACACGCTGGTGCCT
 CTGCTGTGGCTCTGGGCATGGCCATTGTGCTCTGTGGGCTCCATGGGCAACTATATCACCAGGATGTC
 CCAGAAGTACTATGAATACTCCCACTACAAGGAGCAAGATGAGCAGGGACCTCAGCAGCGCCACCACGA
 GGCTCCCACGCACCCATCTCCTGGTTTTCCAGGCCATCTTCTATAGCTTCTTCCACTTGAGCTTCGCGT
 GTGCCAGCTGCCATGATTTACTTCTCAACAACTACCTGTATGACCTGAACCACACACTGATCAACGT
 GCAGAGCTGCGGTAAGAGCCAAGGCATTCTGAATGGCTTCAACAAGACGGTCCCTCGGACGCTGCCG
 CGCAGCAAAAACCTTATTGTTGTAGAGAGCGTGCTCATGGCGGTGGCCTTCTTGGCCATGCTGATGGTGC
 TGGGCTGTGTGGAGCCGCTTACCGGCCACGGAAGAGATCGACCTGCGCAGTGTGGGCTGGGGCAACAT
 CTTCCAGCTGCCCTTCAAACACGTCCGTGACTTTCGCTTACGCCATCTGGTGCCTTCTTTATCTACAGT
 GGCTTTGAGGTGCTCTTTGCCTGCACTGGTTTTGCCCTGGGCTACGGCGTGTGCTCCATGGGCTGCTGGAGC
 GACTGGCATACTGCTCATAGCTTACAGCCTGGGTGCCACAGCCTCCTCGGTTCTGGGCTGCTGGGCT
 GTGGCTGCCTCGCTCTGTCCCGCTCGTGGCTGGGGCAGGACTGCACCTACTGCTCACCTTAGCCTCTTT
 TTCTGGGCTCCTGCTCCTCGGGTCTCCAGCACAGTTGGATCTTTTACTTCTGCTGGCTGCCCTCTGGGGT
 TGGGCAGCGCCCTCAACAAGACCGGACTTAGCACACTCCTGGGCATCCTATATGAAGACAAGAGAGGCA
 GGACTTCACTTACCATCTATCACTGGTGGCAGGCCGTGGCCATCTTTGTTGTGTACCTGGGCTCCAGC
 TTGCCATGAAGCCAAGCTGGCAGTGTGCTGGTACCCTGGTAGCAGCAGCAGCCTCATACTGTGGA
 TGAACAGAAGTGCAGCAAGGATTGGTCCCGCCGAGCCGCGCATTCCGAAGCCACAGCACAAAGTCCG
 CGGCTACCGCTACCTGGAGGAGACAACCTGGATGAGAGTGACATGGAGGGCAGCAGGGTCAAGGGGAC
 TGCGCAGAGGACGAAGCACACAGGCAGGGCCCTGGGTACAGAGCCAGCTGGCCCTGCCGCAAGCCCT
 GTCCTATGAACAGGCTCTGGGTGGCGATGGCCCTGAGGAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209291 representing NM_019449
 Red=Cloning site Green=Tags(s)

MEVEPPLYPVAGAAGPQGDDEDRHGVPDGPPEAPLDELVGAYPNYNEEEERRRYRRKRLGVVKNVLAASG
 VTLTYGVYLGLLQMQILHYDETYREVKYGNMGLPDIDSKMLMGINVTPIAALLYTPVLRFFGKWMFMF
 LAVGIYALFVSTNYWERYTLPVSAVALGMAIVPLWASMGNYITRMSQKYYEYSHYKEQDEQGPQQRPPR
 GSHAPYLLVFQAIIFYSFFHLSFACAQLPMIYFLNNYLIDLNHTLINVQSCGTSQGI LN GFNKT VLR TLP
 RSKNLIVVESVLMVAFLAMLMLVGLCGAAYRPTTEEIDLRVSGWGNIFQLPFKHVRDFRLRHLVPPFIYS
 GFEVLFACTGFALGYGVCMSGLERLAYLLIAYSLGASASSVLGLLGLWLPRVPLVAGAGLHLLTL SLF
 FWAPAPRVLQHSWIFYFVAALWGVGSALNKTGLSTLLGILYEDKERQDFIFTIYHWWQAVAFV VYL GSS
 LPMKAKLAVLLVTLVAAAASYLWMEQKLQQGLVPRQPRIPKPKQHKVGRYRLEEDNSDESMEGEQQGQD
 CAEDEAPQAGPLGTEPAGPCRKPCPYEQALGGDGPPEEQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	<ol style="list-style-type: none">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_019449.1 , NP_062322.1
RefSeq Size:	2277 bp
RefSeq ORF:	1860 bp
Locus ID:	54445
UniProt ID:	Q8VCW4
Cytogenetics:	19 A
Gene Summary:	Plays an important role in innate and adaptive immunity by regulating nucleotide-sensing Toll-like receptor (TLR) signaling. Required for the transport of a subset of TLRs (including TLR3, TLR7 and TLR9) from the endoplasmic reticulum to endolysosomes where they can engage pathogen nucleotides and activate signaling cascades. May play a role in autoreactive B-cells removal.[UniProtKB/Swiss-Prot Function]