

Product datasheet for **RG200151**

UNC45A (NM_018671) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UNC45A (NM_018671) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UNC45A
Synonyms:	GC-UNC45; GCUNC-45; GCUNC45; IRO039700; OOHE; SMAP-1; SMAP1; UNC-45A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG200151 representing NM_018671
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACTGTGAGTGGTCCAGGGACCCCCAGCCCCGGCCGCCACCCCGGGGCCAGCTCAGTGGAGCAGC
 TGCGGAAGGAGGGCAATGAGCTGTTCAAATGTGGAGACTACGGGGCGCCCTGGCCGCCTACACTCAGGC
 CCTGGGTCTGGACGCGACGCCCCAGGACCAGGCCGTTCTGCACCGGAACCGGGCCGCTGCCACCTCAAG
 CTGGAAGATTACGACAAAGCAGAAACAGAGGCATCCAAGCCATTGAAAAGGATGGTGGGGATGTCAAAG
 CACTCTACCGGGCAGCAAGCCCTAGAGAAGCTGGGCCGCTGGACCAGGCTGTCCTTGACCTGCAGAG
 ATGTGTGAGCTTGGAGCCCAAGAACAAGTTTTCCAGGAGGCCTTGCGGAACATCGGGGGCCAGATTGAG
 GAGAAGGTGCGATACATGTCCTCGACGGATGCCAAAGTGAACAGATGTTTCAGATACTGTTGGACCCAG
 AAGAGAAGGGCACTGAGAAAAAGCAAAGGCTTCTCAGAACCTGGTGGTGTGCCAGGGAGGATGCTGG
 AGCGGAGAAGATCTCCGGAGTAATGGGGTTCAGCTCTTGCAACGTTTACTGGACATGGGAGAGACTGAC
 CTATGCTGGCGGCTCTGCGTACGCTGGTTGGCATTGCTCTGAGCATCAGTCACGGACAGTGGCAACCC
 TGAGCATACTGGGAACCTCGGCGAGTAGTCTCCATCCTGGGCGTGGAAAGCCAGGCTGTGTCCCTGGCTGC
 CTGCCACCTGCTGCAGGTTATGTTTGTGTCCTCAAGGAAGGTGTCAAAAAGGCTTCCGAGGCAAGAA
 GGTGCCATCATTGTGGATCCTGCCCGGGAGCTGAAGGTCTCATCAGTAACCTCTTAGATCTGCTGACAG
 AGGTGGGGTCTCTGGCCAAGGCCGAGACAATGCCCTGACCTCCTGATTAAGCGGTGCCCGGAAGTC
 TCTCAAGGACCCCAACAACAGCCTCACCCTCTGGGTCAACGACCAAGGTGTGAAAAGATTTTGAAGTG
 GGGGGCTCTACAGGACCCCTCTGGGGAGCTCGCAGTGACCCGCAACAGCCGCATGAGCGCCTTATTC
 TCCTCAGCAAGCTCTTTGATGACCTCAAGTGTGATGCGGAGAGGGAGAATTTCCACAGACTTTGTGAAA
 CTACATCAAGAGCTGGTTTGAGGGCCAAGGGCTGGCCGGGAAGCTACGGGCCATCCAGACGGTGTCTCTGC
 CTCTGACAGGGCCATGTGACGCTGGCAACCGGGCCTTGAGCTGAGCGGTGTATGGAGAGTGTGATTG
 CTCTGTGTGCTCTGAGCAGGAGGAGGAGCAGCTGGTGGCCGTGGAGGCTCTGATCCATGCAGCCGGCAA
 GGTAAGCGGGCCTCATTCACTGCAATGGTGTCTCGCTGCTGAAGGACCTATATAAGTGCAGCGAG
 AAGGACAGCATCCGCATCCGGGCGCTAGTGGGACTCTGTAAGCTCGGTTCCGGCTGGAGGGACTGACTTCA
 GCATGAAGCAGTTTGTGAAGGCTCCACTCTCAAAGTGGTAAGCAGTGTGAAAGTGGCTGTGCAATGA
 CCAGATCGACGACGCACTCGGCGCTGGCAGTGGAGGGCCTGGTTACCTGACCTTTGATGCCGACGTG
 AAGGAAGAGTTTGTGGAGGATGCGGCTGCTCTGAAAGCTCTGTTCCAGCTCAGCAGGTTGGAGGAGGTT
 CAGTGTCTTTGCGGTGGCCTCAGCGCTGGTGAAGTGCACCAACAGCTATGACTACGAGGAGCCGACCC
 CAAGATGGTGGAGCTGGCCAAGTATGCCAAGCAGCATGTGCCCGAGCAGCACCCCAAGGACAAGCCAAGC
 TTCGTGCGGGCTCGGGTGAAGAAGCTGCTGGCAGCGGGTGTGGTGTGCGCCATGGTGTGATGGTGAAGA
 CGGAGAGCCCTGTGCTGACCAGTTCTGACAGAGAGCTGCTCTCCAGGGTCTTCTTGGCTTATGTTGAAGA
 GGTAGAGGACCGAGGCACTGTGGTTGCCAGGGAGGCGGCGAGGGCGCTGATCCCCTGGCCCTGGAAGGC
 ACGGACGTGGGGCAGACAAAGGCAGCCAGGCCCTTGCCAAGCTCACCATCACCTCCAACCCGGAGATGA
 CCTTCCCTGGCGAGCGGATCTATGAGGTGGTCCGGCCCTCGTCTCCCTGTTGCACCTCAACTGCTCAGG
 CCTGCAGAACTTCGAGGCGCTCATGGCCCTAACAAACCTGGCTGGGATCAGCGAGAGGCTCCGGCAGAAG
 ATCCTGAAGGAGAAGGCTGTGCCATGATAGAAGGCTACATGTTTGAGGAGCATGAGATGATCCGCGGG
 CAGCCACGGAGTGCATGTGTAACCTGGCCATGAGCAAGGAGGTGCAGGACCTCTTGAAGCCAGGGCAA
 TGACCGACTGAAGCTGCTGGTGTGTACAGTGGAGAGGATGATGAGCTGTACAGCGGGCAGCTGCCGGG
 GGCTTGGCCATGCTTACCTCCATGCGGCCACGCTCTGCAGCCGATTCCCAAGTGACCACACTGCTGGC
 TGGAGATCCTGCAGGCCCTGCTTCTGAGCTCCAACCAGGAGCTGCAGCACCGGGGTGCTGTGGTGGTGT
 GAACATGGTGGAGGCTCGAGGGAGATTGCCAGCACCTGATGGAGAGTGAAGTGTGGAGATCTTGTCA
 GTGCTAGCTAAGGGTGACCACAGCCCTGTACAAGGGCTGCTGCAGCCTGCTGGACAAAGCAGTGAAT
 ATGGGCTTATCCAACCAACCAAGATGGAGAG

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG200151 representing NM_018671
 Red=Cloning site Green=Tags(s)

MTVSGPGTPEPRPATPGASSVEQLRKEGNELFKCGDYGGALAAAYTQALGLDQAVLHRNRAACHLK
 LEDYDKAETEASKAIEKDDGGVKALYRRSQALEKLRDLQRCVSLPEKKNVQFQALRNIGGQIQ
 EKVRYMSSDADAKVEQMFQILLDPEEKGTTEKKQKASQNLVVLAREDAEAEKIFRSNGVQLLQRLDMGETD
 LMLAALRTLVGICSEHQSRVATLSILGTRRVVSIILGVESQAVSLAACHLLQVMFDALKEGVKKGFRGKE
 GAIIVDPARELKVLI SNLLDLLTEVGVSGQGRDNAL TLLIKAVPRKSLKDPNNSLTLWVIDQGLKKILEV
 GGSLLQPPGELAVTANSRMSASILL SKLFDDLKCAERENFHRLCENYIKSWFEGQGLAGKLRAIQTVSC
 LLQGPCDAGNRALELSGVMESVIALCASEQEEEQLVAVEALIIHAAGKAKRASFITANGVSLKLDLYKCE
 KDSIRIRALVGLCKLGSAGGTFDFSMKQFAEGSTLKLAKQCRKWLNDQIDAGTRRWAVEGLAYLTFDADV
 KEEFVEDAAALKALFQLSRLEERSVLF AVASALVNCTNSYDYEEDPKMVELAKYAKQHVPEQHPKDKPS
 FVRARVKLLAAGVVSAMVMVKTESPVL TSSCRELLSRVFLALVEEVEDRGTVAQGGRALIPLALEG
 TDVGTQKAAQALAKL TITSNPEMTFPGERIYEVVRPLVSLHLNCSGLQNFALMALTNLAGISERLRQK
 ILKEKAVPMIEGYMFEHEMIRRAATECMCNLAMSKEVQDLFEAQGNDRLLKLLVLYSGEDDELLQRAAAG
 GLAMLTSMRPTLCSRIPQVTTWHLEILQALLSSNQELQHRGAVVVLNMVEASREIASTLMESEMMEILS
 VLAKGDHSPVTRAAAACLDKAVEYGLIQPNQDGE

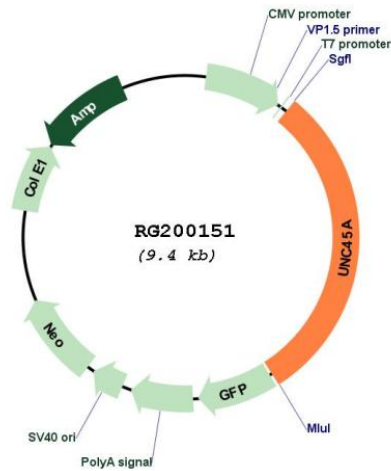
TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_018671

ORF Size: 2832 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_018671.5](#)

RefSeq Size: 3585 bp

RefSeq ORF: 2835 bp

Locus ID: 55898

UniProt ID: [Q9H3U1](#)

Cytogenetics: 15q26.1

Gene Summary:

This gene encodes a regulatory component of the progesterone receptor/heat shock protein 90 chaperoning complex, which functions in the assembly and folding of the progesterone receptor. The encoded protein is thought to be essential for normal cell proliferation, and for the accumulation of myosin during development of muscle cells. [provided by RefSeq, Sep 2018]