

Product datasheet for **MG218039**

Uvssa (NM_001081101) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Uvssa (NM_001081101) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Uvssa
Synonyms:	4933407H18Rik; D330017J19Rik; Kiaa1530; mKIAA1530
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218039 representing NM_001081101
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATCAGAACTTTACAGTTGATAGAGGAGCTCACAACCTCAGGAGAATCCCAACTCAATGCTCAGA
 AAATGAAGGAACTGAAGAAAATTTGCAAGTCTTCCGAGGAGCAGCTGAGCCATGCCTACCGCTGCTGAT
 CACACAGCTGACCCAGGGCCATGCCGAGATCCGCCTCTCGGCCTTCCAGATCGTGGATGAGCTCTTCACC
 CGCTCTCATCAGTTCAGAATGCTGCTTGTCTTCTGACTTCCAGGAATTCCTCGAGCTCACACTGGGCACAG
 ATAGTGACCGTCCCCTGCCACCCCTCGGGAGGCAGCTCAGAGGCTAAGGCAGGCAGCCATGCAAGCTGT
 GGAAGGTTGGAATGAGAAGTTTGGGCAGGCCTATAAGAAGCTAGCCTTGGGCTACCATTCTAAAAACAC
 ACCAAAAAGGTAGATTTTCGGGATATAAATGTTAGGACTGTGGCAGAAAGGAAGCGAGAAGAGGAGAAGC
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 TGAATTTGAATGCTGCCTGACAGAAGTGGAGAAGTCTTTAAGCTGCTGGTGCCTTGGATTTTGTACCA
 TGCCAGAGGATAAATCTTTGGTGAAGCGTCTAGCATGACAGAGGGCTATGCTCCTTGCCCTTAGACC
 CGGACCTGGCCACTCCCCGTGAGTCTGGTCTCTCTGGACCCAGGATGAAGAGCAGCCATGCTGTAGCAA
 GGACCTGGTTGCCTCTGCATACCATGTAGGATCTGTTGTTGGTCTGAAGGCACTACCCAAACAGCCATG
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 TGCTGTGCTCCATGCTGCTCGGGACTCGCTCAAACCTCAGCAACAAGTTTCTGCCAACTGTGTGCTCC
 TGGGTCCAGCGGTTTACCCGTGCAGGGACCTACAGTGCACATTTAAAACAGGCCATTGACCTGAAAATGG
 AACTGGAACCTGCCCTGAAGAAGTATGAAGAAGTGAACATTGAGCCTGGGAGAGGACAGAGGAGCAGGAC
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 CCTCGAATCCCTGACCATCTACGAGCTGAATATGGGCTGGAGCCAAGGCCCACTGAAGACTCTGGAGA
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 CTCTGCAGCTGCCAGATGTTGCGGCTCCAGGACTGCTTATCATCTCCCTCTCCCTCCTCTACCAGGGTA
 CTTCTGGGCCAGAGGAAGCCAGAAGCAAGCAGAGCGAGCCGAGCACCATTGTACCCTTCGGAGTGG
 ACCTGTGTTACTGGGGCCAGGAGCAGCTAACAGCTGGAAGATTCTTAAATCTGACTCTCAACACCGCTT
 CTGGAACCCAGCGAGGTGGAGGAAGAGGTGGACAGTGCCATGTTTCTGAGATGCTCCATAGCCGACAC
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 GCGAGCGCCAGGATCGACTGAAGTGCCATTCCATGGGAAGATCATCCCCAGAGATGACAAGGGGCAGCC
 TCTCAACCCAGAAGACAGAGCCCGTGAACAAAGGCAGCAGCTTACGCGGAGCAGGCACATCCAGATTGG
 CAGGACCTGAGTTTCTGAAGGACGTGGAAGCAGCCACAGGGGTGGACCTCGGTTTCATCCAGGTCCAGCA
 AGAAAGGCAAAGGGAAAAAGAAGACCCCTAACCTCACGGATCTGCGAGAGCGCACCAACACCCGCCCG
 GGCCCGCCTTGAGAAGAAGGTCTTTGCCAAGGCAGCCGTGCAGAGAGTAGTTGCTGCCATGAACCAGATG
 GACCAGAAGAAACACGAGAAGTTTGCAACCAATTTAATTATGCGCTGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG218039 representing NM_001081101
 Red=Cloning site Green=Tags(s)

MDQKLSQLIEELTTSGESQLNAQKMKELKKICKSSEEQLSHAYRLLITQLTQGHAEIRLSAFQIVDELFT
 RSHQFRMLLVSDFQEFLELTLGTDSDRPLPPPREAAQRLRQAAMQAVEGWNEKFGQAYKKLALGYHFLKH
 TKKVDFRDINVRTVAERKREEEKQKHLDKIHRESADRAKREMEEMYDEIECCLTEVENCFKLLVPLDFVP
 CPEDKFFGEASSMTEGYAPCPLSPDLATPRE SGLSGPQDEEQCCSKDLVASAYHVGSVGLKALPQTAM
 KDSSRDEDEPSDPDDLRSGLGSHKYTL DVEVPSDGLKVQENEDNLAVLHAARDSLKL IQNKFLPTVCS
 WYQRFTRAGTYS AHLKQAIDLKMELELALKKYEELNIEPGRGQRSRTEALEDESEDEDQDFVEVEPEGEYE
 PRIPDHLRAEYGLEPKAPLKTLEKGTAVCKLQERTMRREEEASDPTSAQAQMLRLQDCLSSPSPSSTRV
 LPGPEEAQKQAEARARAPIV PFGVDLCYWGQEQLTAGKILKSDSQHRFWKPSEVEEEVDSAHVSEMLHSRH
 ITFSGTFEPVQHKCRALRPNGL CERQDRLKCPFHGKIIPRDDKGQPLNPEDRAREQRQQLQRQQAHPDW
 QDPEFLKDVEAATGVDLGSSRSKKGKGGKKKHPNLTDLRERTNTARARLEKKVFAKAAVQRVVAAMNQM
 DQKKHEKFANQFNALK

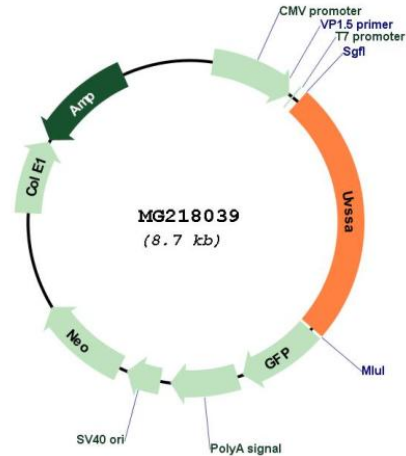
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001081101

ORF Size: 2151 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_001081101.2](#), [NP_001074570.1](#)

RefSeq Size: 7343 bp

RefSeq ORF: 2154 bp

Locus ID:	71101
UniProt ID:	Q9D479
Cytogenetics:	5 B1
Gene Summary:	Factor involved in transcription-coupled nucleotide excision repair (TC-NER) in response to UV damage. TC-NER allows RNA polymerase II-blocking lesions to be rapidly removed from the transcribed strand of active genes. Acts by promoting stabilization of ERCC6 by recruiting deubiquitinating enzyme USP7 to TC-NER complexes, preventing UV-induced degradation of ERCC6 by the proteasome. Interacts with the elongating form of RNA polymerase II (RNA pol Ilo) and facilitates its ubiquitination at UV damage sites, leading to promote RNA pol Ilo backtracking to allow access to the nucleotide excision repair machinery. Not involved in processing oxidative damage (By similarity).[UniProtKB/Swiss-Prot Function]