

## Product datasheet for **MR218039**

### Uvssa (NM\_001081101) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Uvssa (NM_001081101) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Uvssa
Synonyms:	4933407H18Rik; D330017J19Rik; Kiaa1530; mKIAA1530
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR218039 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATCAGAACTTTACAGTTGATAGAGGAGCTCACAACCTCAGGAGAATCCCAACTCAATGCTCAGA  
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 GACCAGAAGAAACACGAGAAGTTTGCAACCAATTTAATTATGCGCTGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR218039 protein sequence  
 Red=Cloning site Green=Tags(s)

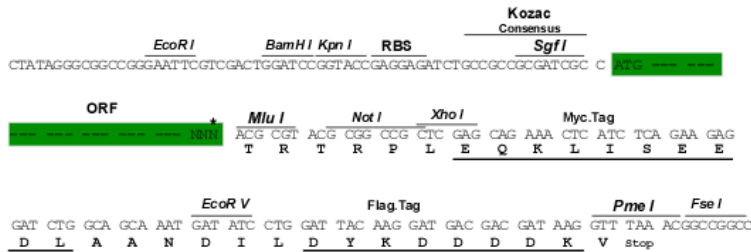
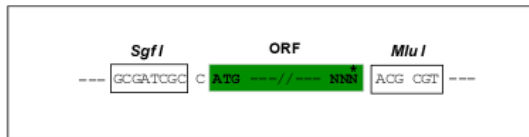
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 CPEDKFFGEASSMTEGYAPCPLSPDLATPREGLSGPQDEEQCCSKDLVASAYHVGSVVGLKALPQTAM  
 KDSSRDEDEPSDPDFLRSHGLGSHKYTLDVEVPSDGLKVQENEDNLAVLHAARDSLKL IQNKFLPTVCS  
 WYQRFTRAGTYS AHLKQ AIDLKMELELALKKYEELNIEPGRGQRSRTEALDESEDEDQDFVEVPEKEGYE  
 PRIPDHLRAEYGLEPKAPLKTLEKGTAVCKLQERTMRREEEASDPTSAQAQMLRLQDCLSSPSPSSTRV  
 LPGPEEAQKQAEARARAPIVPGVDLCYWGQEQLTAGKILKSDSQHRFWKPSEVEEEVDSAHVSEMLHSRH  
 ITFSGTFEPVQHKCRALRPNGRLCERQDRLKCPFHGKIIPRDDKGQPLNPEDRAREQRQQLQRQQAHPDW  
 QDPEFLKDVEAATGVDLGSSRSKKGKGGKKKHPNLTDLRERTNTARARLEKKVFAKAAVQRVVAAMNQM  
 DQKKHEKFANQFNALK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001081101

**ORF Size:** 2154 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

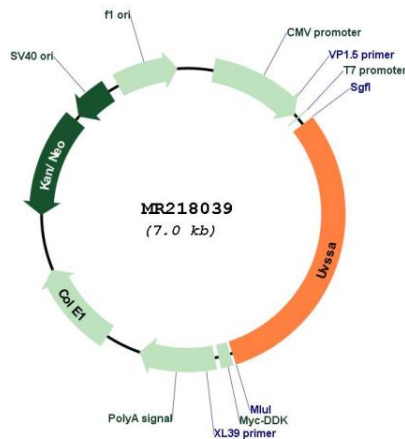
**UniProt ID:** [Q9D479](#)

**Cytogenetics:** 5 B1

**MW:** 81.8 kDa

**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]

### Product images:



Circular map for MR218039