OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RR214497

Uvssa (NM_001134558) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Uvssa (NM_001134558) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Uvssa
Synonyms:	RGD1306371
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RR214497 representing NM_001134558
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATCAGAAACTTTCACAGTTGATAGAGGAGCTCACAACTTCAGGAGAATCCCAACTGAATGCTCAGA
AAATGAAGGAACTGAAGAAAATTTGCAAGTCTTCAGAGGAGCAGCTGAGCCATGCCTACCGCCTGCTAAT
GACACAGCTGACCCAGGACCACGCTGAGATCCGCCTCTCAGCCTTCCAGATCGTGGATGAGCTCTTCACC
CGGTCCCATCAGTTCAGAGTGCTGCTTGTTTCTGACTTCCAGGAATTCCTGGAGCTCACACTGGGCACAG
ACAATGACCATCCCTTGCCACCCCCTCGGGAGGCAGCTCAGAGGCTAAGGCAGGCAGCCATGCAAGCTGT
GGAAGGTTGGAATGAGAAGTTTGGGGAAGCCTATAAGAAGCTAGCCTTGGGCTACCACTTCCTAAAACAC
ACCAAAAAGGTGGATTTTCGGGATATAAATGTTAGGACTCTGGCAGAAAGGAAGCGAGAAGAGGAGAAGC
AGAAGCACTTGGATAAGATCCACAGAGAAAGTGCTGACCGGGCTAAGAGGGAGATGGAAGAAATGTCTGA
TGAAATTGGATGCTGCCTGACAGAAGTGGAGAACTGCTTTAGGCTGCTGGTGCCCTTGGATTTGGGCCCG
TACCGAGAGGATAAGTTCTTTGGTGAGGCATCTGGCATAGCAGAGGACCATGCTCCTTGCGCCTGGAGCC
CAGACCTGGCAACTCCCCGAGGGTCTGGTCTCTCTGGACCCCAGGATGAAGAGCAGCCATGCTGTAGCAA
GGACCTGGTTGCCTCTGCACACCATGCAGGATCTGCAGTTGGTCTGAAGGCACCAGCCCCAGCAGCCACG
GAAGACCCCTGCAGGGATGAAGACAGACACAGCGAACACAGCGACCCAGAGGATTTCCTGCGGAGCCATG
GGCTGGGCTCCCACAAGTACACGCTGGACGTGGAACTCCCCTCAGACGGTCTGAAGGTACAGGAGAATGA
AGACAACCTGGCCGTGCTCCACGCTGCTCGAGACTCGCTCAAACTCATCCAGAACAAGTTTCTGCCAGCG
GTGTGCTCCTGGGTCCAGCGGTTTACCCGTGCAGGGATCTACAGTGGACATTTAAAGCAGGCCATTGACC
TGAAAATGGAACTGGAACTTGCTCTGAAGAAATATGAAGAACTGAACATTGAGCCTGGGAGAGGACAAAG
GAGCAGGACAGAAGCACTGGAGGACAGTGAGGAGGAGGACCAGGACTTCGTGGAGGTTCCAGAGAAAGAG
GGTTACGAGCCTCGAATCCCCGACCATCTACGAGCTGAATATGGGCTGGAGCCAAAGGCCCCACTGAAGA
CTCTGGAGAAACATACAGCTGTATGTAGCGTACAGGAGAGGACCAGGAGGAGAAGGGAAGAGGAGGCCTC
AGACCCCACCTCTGCAGCTGCCCAGATGTTGCGGCTCCAGGACTGCTTGTCATCTCCCTCCTCCTCCTCT
ACCAGGGGACCTCTGGGACCAGAAGAAGCCCAGAAGCAAGCGGAGCGAGCCCGAGCACCCATGGTGCCCT
TCGGAGTGGACCTGTGCTACTGGGGCCAGGAGCAGCTAACAGCTGGGAAGATTCTTAAATCCGACTCTCA
ACACCGCTTCTGGAAACCCCACGAGGTAGAGGAAGAGGTGGACAGTGCCCATGTTTCTGAGATGCTCCAC
AGCCGACACATTACCTTTTCTGGGAAATTCGAGCCTGTGCAGCACAAGTGCCGGGCCCTCAGGCCTAATG
GCAGGCTCTGCGAGCGCCAGGATCGGCTGAAGTGCCCGTTCCATGGGAAGATCATCCCCAGAGATGACAA
GGGGCAGCCTCTCAACCCTGAAGACAGAGCCCGTGAACAGAGGCAGCAGCTTCAGCAGCAACGGGCACAT
CCAGATTGGCAGGACCCTGAGTTTATGAAGGACGTGGAGGCAGCCACAGGGGTGGACCTCGGTTCCTCCA
AGTATAGCAAGAAGGGCAAAGGGAAAAAGAAGAAGCACCCCAACCTCACTGACCTTCGAGAACGTGCCAA
CACTGCCCGAGCCCGCCTTGAGAAGAAGGTCTTTGCCAAGAGCTGTGCAGAGAGTAGTTGCTGCCATGAA
CCAGATGGACCAGAAGAAGCACGAGAAGTTTGCAAATCAATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

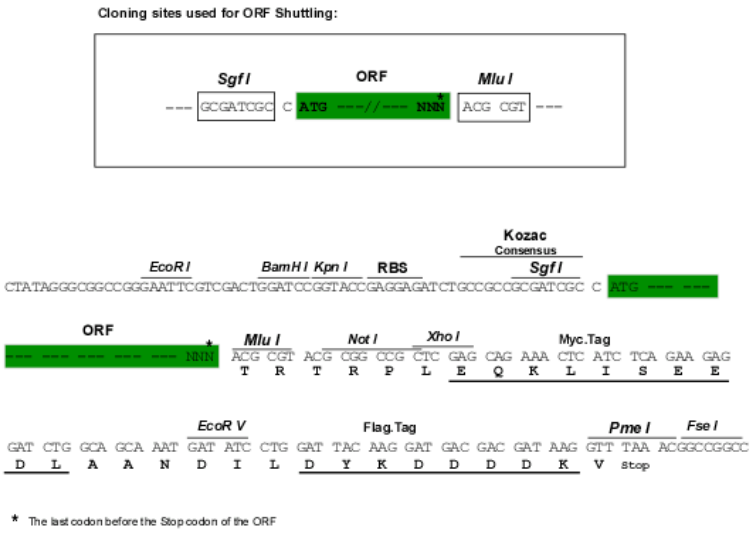
>RR214497 representing NM_001134558
Red=Cloning site Green=Tags(s)

MDQKLSQLIEELTTSGESQLNAQKMKELKKICKSSEEQLSHAYRLLMTQLTQDHAEIRLSAFQIVDELFT
RSHQFRVLLVSDFQEFLELTLGTDNDHPLPPPREAAQRLRQAAMQAVEGWNEKFGEAYKKLALGYHFLKH
TKKVDFRDINVRTLAERKREEEKQKHLDKIHRESADRAKREMEEMSDEIGCCLTEVENCFRLLVPLDLGP
YREDKFFGEASGIAEDHAPCAWSPDLATPRGSGLSGPQDEEQPCCSKDLVASAHHAGSAVGLKAPAPAAT
EDPCRDEDRHSEHSDPEDFLRSHGLGSHKYTLDVELPSDGLKVQENEDNLAVLHAARDSLKLIQNKFLPA
VCSWVQRFTRAGIYSGHLKQAIDLKMELELALKKYEELNIEPGRGQRSRTEALEDSEEEDQDFVEVPEKE
GYEPRIPDHLRAEYGLEPKAPLKTLEKHTAVCSVQERTRRRREEEASDPTSAAAQMLRLQDCLSSPSSSS
TRGPLGPEEAQKQAERARAPMVPFGVDLCYWGQEQLTAGKILKSDSQHRFWKPHEVEEEVDSAHVSEMLH
SRHITFSGKFEPVQHKCRALRPNGRLCERQDRLKCPFHGKIIPRDDKGQPLNPEDRAREQRQQLQQQRAH
PDWQDPEFMKDVEAATGVDLGSSKYSKKGKGKKKKHPNLTDLRERANTARARLEKKVFAKSCAESSCCHE
PDGPEEAREVCKSI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001134558

ORF Size: 2142 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_001134558.1, NP_001128030.1

RefSeq Size: 2632 bp

RefSeq ORF: 2145 bp

Locus ID: 314061

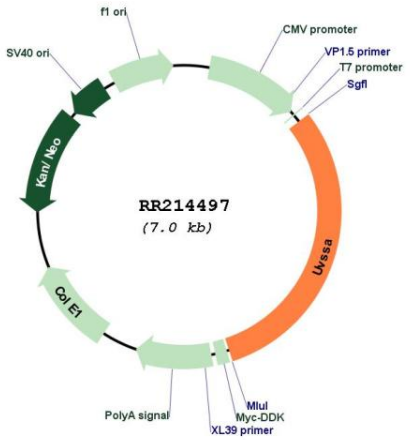
UniProt ID: D3ZND0

Cytogenetics: 14q21

MW: 81.1 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 IIo) and facilitates its ubiquitination at UV damage sites, leading to promote RNA pol IIo 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 RR214497