

## Product datasheet for **MR210112**

### Uvrag (NM\_178635) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Uvrag (NM_178635) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Uvrag
Synonyms:	9530039D02Rik; AI648770; BB124205; Uvrag1; Uvragl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR210112 representing NM\_178635  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCTCCTGCGCCTCGCTCGGGGCCCGGTGCCCTGCCACCCCGGGCCCGTCCGCCGCGTACGT  
 CCGGTGCCCCCGCGCGGCCCTGCATGTGGAGCTGCCGTCTCAGCAGCGGCGTCTCCGACATCTCCGGAA  
 CATCGCTGCTCGGAACATTGTTAATAGAAATGGCCATCAGCTTCTGGATACCTACTTCACTCTTCATTTG  
 TGTGATAATGAGAAAATCTTTAAAGAAATTTATAGGAGTGAAGTGATTAAGAATTCCTTGAATCCGACGT  
 GGAGGAGTCTTGACTTTGGAATAATGCCGGATCGTCTGGATACATCTGTGTCTGCTTTGTGGTGAAGAT  
 TTGGGGTGGGAAGGAAGAGGCCCTTTCAGCTGTTGATAGAGTGGAAAGTCTACCTGGATGGCTGAAGTAC  
 TTGGGACAGCAGATCCATGCCCGCAACCAGAATGAAATCATTTTTGGGCTGAATGATGGCTACTACGGTG  
 CTCCTGTGAACACAAGGGTCATCAAACGCACAGAAGAACCCTCCTTCAGGTGGACCAGAAGTGTGTTCCG  
 CAATTCCTACGATGTCTCTCTTTGCTGCGGCTTCATAGAGCCAGTGTGCAATTAACAGACTCAGGTA  
 ACTGTTACAGACTTTGAAAGGAAATTAAGAAAACTAAGACTCACATCGACAAGCAATGAGCTGAAAA  
 AAGAAAGTGAATGTCTCGGATTGAAAATTTTGGTCTTCGAAATGAAGTGAAGACAGAAGAAAGCGCT  
 GGGGCGGAGGTGGCCTTCTGCATAAGCAACAGATGGCTCTACAGGACAAAGGAAGTGCATTTTCCACT  
 GAGCATGGCAAGTCCAGCTGCAGAAGGACTCCCTGAGTGAGCTGAGGAAGGAGTGTACTGCCAAAAGGG  
 AACTCTTTCTGAAGACTAATGCTCAGTTGACCATCCGCTGCAGGCAGCTACTCTCAGAGCTGTCTACAT  
 TTACCCTATTGATTTGAATGAGCACAAGGATTATTTGTATGTGGTGTCAAGTTGCCAATTCCGAGGAC  
 TTCAAAGCAAAAGAGGATGGAAGCATTGCCGTCGCCCTTGTTTACTGACATTTGGTCTCCATGATCT  
 CCTTCTTCTACAAGTACCCCTCAGGTATCCCATAAATCACAAGGGTCCAGATCAACAATCAAAGATAA  
 CATCAACGACAAGCTGACAGAAAAGGAGCGAGAGTTTCCACTGTATCCAAGGGAGGGGAGAAGCTGCAG  
 TTTGACTATGGTGTCTACCTTCTGAACAAGAACATAGCACAGCTGAGATACCAGCATGGCCTGGGGACTC  
 CAGACTTGAGGCAAACTTCTCTAACCTGAAAACTTCATGGAGCACGGACTGATGGTCAAGTGTGACAG  
 ACATCACATCTCCAATGCCATCCCTGTCCCGAAGAGACAAAGCTCCACGTTTGGGGTGCAGATGGAGGC  
 TTCTCTGCGGGTATCCCATCACCAGATAAAGTCCATCGCAAGCGGGCCAGCTCAGAGAACGAGAGACTCC  
 AGTACAAAACCCACCTCCAGCTACAATTCAGCATTGACACAGCCCGGGTGGCCATGCCACCTCGGG  
 AGACTCTGAGAGAAAGTCCGCCCTCTGTCTCTCCCTGGACACCTCCCTGGACTTCTCCAAGAAAAAC  
 AAGAAAGCAGGAGTAGACCTGGGCAGCAGTGTGAGCGGAGACCACGAAACTCGGACTCCGGCCAAGAGC  
 AGGGGGAAGCCCTGCCTGGGCACCTGGCAGCCGTGAATGGCACTGCACTGCCAGCGAGCAGGCTGGCCC  
 TGCCGGCACCCCTGCTGCCAGGCTCGTGCCACCCGGCCCCCTCAGCTGAGCTCTGTGTGAGTGGAGCAA  
 GCAGAGGAAATCATCGGGCTGGAAGCCACAGGCTTACCTCGGGTACCAGCTGGAGGCGCTCAGCTGCA  
 TCCCGGTGGACAGCGCAGTGGCAGTGGAGTGTGACGAGCAGGTGCTGGGGGAGTTTGAGGAGTTCTCTCG  
 CAGGATCTATGCCCTCAGCGAGAAGCTGTCCAGCTTCCGCGGCCCTCGCAGGAGTTCTGACAAG

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



**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\\_178635.2](#), [NP\\_848750.2](#)

**RefSeq Size:** 3432 bp

**RefSeq ORF:** 2097 bp

**Locus ID:** 78610

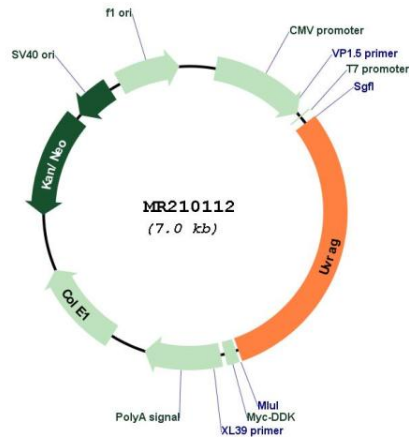
**UniProt ID:** [Q8K245](#)

**Cytogenetics:** 7 E1

**MW:** 78 kDa

**Gene Summary:** Versatile protein that is involved in regulation of different cellular pathways implicated in membrane trafficking. Involved in regulation of the COPI-dependent retrograde transport from Golgi and the endoplasmic reticulum by associating with the NRZ complex; the function is dependent on its binding to phosphatidylinositol 3-phosphate (PtdIns(3)P). During autophagy acts as regulatory subunit of the alternative PI3K complex II (PI3KC3-C2) that mediates formation of phosphatidylinositol 3-phosphate and is believed to be involved in maturation of autophagosomes and endocytosis. Activates lipid kinase activity of PIK3C3. Involved in the regulation of degradative endocytic trafficking and cytokinesis, and in regulation of ATG9A transport from the Golgi to the autophagosome; the functions seems to implicate its association with PI3KC3-C2. Involved in maturation of autophagosomes and degradative endocytic trafficking independently of BECN1 but depending on its association with a class C Vps complex (possibly the HOPS complex); the association is also proposed to promote autophagosome recruitment and activation of Rab7 and endosome-endosome fusion events. Enhances class C Vps complex (possibly HOPS complex) association with a SNARE complex and promotes fusogenic SNARE complex formation during late endocytic membrane fusion. In case of negative-strand RNA virus infection is required for efficient virus entry, promotes endocytic transport of virions and is implicated in a VAMP8-specific fusogenic SNARE complex assembly.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210112