

## Product datasheet for MR211508

### Skiv2l2 (NM\_028151) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Skiv2l2 (NM\_028151) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Skiv2l2  
**Synonyms:** 2610528A15Rik; mKIAA0052; Mtrex  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR211508 representing NM\_028151  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGCGGATGCTTCGGGGATGAGCTTTTCAGCGTTTTTCGAGGATGATTCGACCTCTGCAGCAGGAGCCA  
 AGAAAGACAAAGAGAAAGAGAAATGGAAGGGGCCACCAGGGTCTGCAGACAAGGCCGGGAAACGACTGGA  
 TACCAAATACAATCAGAGTCAGCCAGTGGGGGAAAAACAAAAGAGATCTAGATGTTGAAGGCACTGAT  
 GAACCTATTTTTGGCAAGAAGCCGAGAATAGAAGACTCAATTAATGAAGATTTAAGCCTGGCGGACCTGA  
 TGCCAGAGTCAAGGTACAGTCAGTGGAAACAGTTGAAGGCTGCACACATGAGGTCGCTCTTCTGCAGA  
 TGAGGATTATATACCACTTAAACCTCGAGTTGGGAAGGCAGCAAAGGAATACCCATTCATTCTTGATGCT  
 TTCCAAAGAGAAGCCATTCAGTGTGTTGATAATAACCACTCTGTGCTAGTATCTGCTCATACGTCAGCAG  
 GGAAGACCGTGTGTGCCGAGTATGCTATTGCATTGGCTTTAAGAGAAAAACAGCGTGAATATTTACCAG  
 CCCTATTAAGGCTCTAAGTAATCAGAAATACCGTGAATGTATGAAGAAATTTCAAGATGTGGGCTGATG  
 ACGGGAGATGTTACTATTAATCCACAGCATCTTGCTCGTTATGACTACAGAGATTTTGAGAAGTATGC  
 TGTATAGAGGCTCTGAAGTTATGCGAGAAGTTGCTTGGGTCATATTTGATGAAATTCATTACATGAGAGA  
 TTCAGAGCGTGGTGTAGTATGGGAAGAACTATATTTTGCTCCAGATAATGTTCACTATGCTTTTCTT  
 TCGGCTACTATTCCAAATGCTCGACAGTTTGTGAATGGATTTGTCACCTACATAAACAGCCCTGTCATG  
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 CCTGGTGGTTGATGAAAATGGTACTTCAGAGAAGATAATTTTAACTGCAATGCAAGTCTGCGGGAT  
 GCAGGTGATTTGGCCAAAGGAGACCAGAAGGGACGAAAGGAGGAACAAAAGGTCCATCAAATGTGTTCA  
 AGATTGTGAAGATGATTATGGAGAGAAATTTCCAGCCTGTGATCATCTTCAGTTTCAGTAAGAAGGACTG  
 TGAAGCATATGCTCTTCAGATGACGAAGCTAGACTTCAACACAGATGAAGAAAAGAAGATGGTTGAAGAA  
 GTTTTCAATAATGCAATTGACTGCTTGCTGATGAAGATAAAAAGCTCCCTCAGGTTGAACATGTGCTTC  
 CACTTTTGAAGCGGGGATTGGTATTCACCATGGTGGCTTACTTCTATTTTGAAGAACTATAGAAAT  
 TCTTTTTCTGAAGGATTGATAAAGGCTTATTTGCCACAGAGACTTTTGTATGGGAATTAACATGCCA



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GCTAGAACTGTTTTATTTACAAATGCCCGTAAATATGACGGAAAGGACTTCAGATGGATTCCTCTGGCG  
 AGTACATCCAGATGTCTGGTCGCGCAGGAAGGAGAGGCATGGACGACAGAGGGATTGTGATTCTTATGGT  
 AGACGAGAAGATGAGCCCACTATTGAAAAGCAGCTGCTTAAGGGGTGAGCTGATCCTCTGAACAGTGCT  
 TTCCATCTGACCTATAACATGGTTTTGAACTTACTAAGAGTAGAAGAAATTAACCCCGAGTACATGCTTG  
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 CTTGCCAAGCTGGGAAAAGAGATTGAAGAATATATTCATAAACCCAAAGTACTGCTTACCCTTTCTACAGC  
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 CGTCGGATGTCATAGAGATGAAAGGACGGTGGCTTGTGAAATAAGCAGTGCGGACGAGCTCCTTCTAAC  
 GGAGATGATGTTCAATGGGCTTTTCAATGACCTTTCTCAGAGCAGGCAACCGCACTGTTAAGCTGTTTT  
 GTGTTTCAAGAGAATTCTAGTGAGATGCCCAAATAACAGAGCAGTTAGCTGGACCACTCCGACAAATGC  
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 AAGCTCATTCAAGCCTCACCTGATGGATGTGGTGTATACCTGGGCAACTGGGCCACATTTGCCCATATC  
 TGCAAAATGACAGATGTTTTGAAAGGCAGTATAATTCGTTGTATGAGGCGCTGGAAGAAGTCTTCGAC  
 AGATGTGTCAAGCAGCAAAGCCATTGGAACACAGAGCTGGAGAACAATTTGCTGAAGGAATTACCAA  
 AATCAAGAGGGATATTGTATTTGCTGCCAGCCTACTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR211508 representing NM\_028151

Red=Cloning site Green=Tags(s)

MADAFGDELFSVFEDDSTSAAGAKDKKEKEKWKPPGSADKAGKRLDTKLQSESASGGKNKRDLDVEGTD  
 EPIFGKKPRIEDSINEDLSLADLMPRVKVQSVETVEGCTHEVALPADEDYIPLKPRVGKAAKEYPFILDA  
 FQREAIQCVDNNSVLSAHTSAGKTVCAEYAIALALREKQRVIFTSPIKALSNQKYREMYEEFQDVGLM  
 TGDVITNPASCLVMTTEILRSMLYRGSEVMREVAWVIFDEIHYMRDSEKRVVWEETIILLPDNVHYVFL  
 SATIPNARQFAEWIHLHKQPCHVIYTDYRPTPLQHYIFPAGGDGLHLVVDENGDFREDNFNTAMQVLRD  
 AGDLAKGDQKGRKGGTKGPSNVFKIVKMIMERNFQPVIIFFSFKKDCEAYALQMTKLDNFNTDEEKKMVEE  
 VFNNAIDCLSDKDKLPQVEHVLPLLRGIGIHHGGLLPILKETIEILFSEGLIKALFATETFAMGINMP  
 ARTVLFNARKYDGKDFRWISSGEYIQMSGRARRGMDDRGIVILMVDEKMSPTIGKQLLKGSAADPLNSA  
 FHLYTNMVLNLLRVEEINPEYMLEKSFYQFQHYRAIPGVVEKVKNSEEQYNKIVIPNEENVVIYYKIRQQ  
 LAKLGKEIEEYIHKPKYCLPFLQPGRLLVKVNEGDDFGWGVVNFSSKSNVKNPNSGELDPLYVVEVLLRC  
 SKESLKNASATEAAKPAKPDEKEMQVVPVVLVHLLSAISTVRLYIPKDLRPVDNRQSVLKSIEQEVQRRFPD  
 GVPLLDPIDDMGIQDQGLKVIQKVEAFEHRMYSPLHNDPNLETVYTL CERKAQIALDIKSARELKK  
 RTVLMQDELKCRKRVLRRLGFATSSDVIEMKGRVACEISSADELLLTEMFNGLFNDLSSEQATALLSCF  
 VFQENSSEMPKLTEQLAGPLRQMCEAKRIAKVSAEAKLEIDEEYTLSSFKPHLMDVVYTWATGATFAHI  
 CKMTDVFEGSIIRCMRRLEELLRQMCQAAKAIGNTELENKFAEGITKIKRDIVFAASLYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9096\\_c11.zip](https://cdn.origene.com/chromatograms/mm9096_c11.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_028151

**ORF Size:** 3120 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\\_028151.2](#), [NP\\_082427.1](#)

**RefSeq Size:** 3309 bp

**RefSeq ORF:** 3123 bp

**Locus ID:** 72198

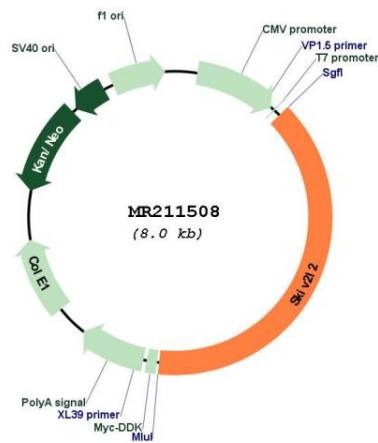
**UniProt ID:** [Q9CZU3](#)

**Cytogenetics:** 13 D2.2

**MW:** 117.6 kDa

**Gene Summary:** Component of exosome targeting complexes. Subunit of the trimeric nuclear exosome targeting (NEXT) complex, a complex that directs a subset of non-coding short-lived RNAs for exosomal degradation. Subunit of the trimeric poly(A) tail exosome targeting (PAXT) complex, a complex that directs a subset of long and polyadenylated poly(A) RNAs for exosomal degradation. The RNA exosome is fundamental for the degradation of RNA in eukaryotic nuclei. Substrate targeting is facilitated by its cofactor MTREX, which links to RNA-binding protein adapters. Associated with the RNA exosome complex and involved in the 3'-processing of the 7S pre-rRNA to the mature 5.8S rRNA. May be involved in pre-mRNA splicing. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR211508