

Product datasheet for MR201292

Skp1a (NM_011543) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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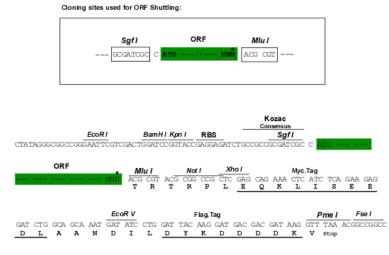
| Product Type: | Expression Plasmids |
|-----------------------------|---|
| Product Name: | Skp1a (NM_011543) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Skp1a |
| Synonyms: | 15kDa; 2610043E24Rik; 2610206H23Rik; EMC19; OCP-II; OCP2; p19A; p19Skp1; SKP1; Tceb1l |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| ORF Nucleotide Sequence: | >MR201292 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |
| | TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C |
| | ATGCCTACGATAAAGTTGCAGAGTTCTGATGGAGAGATATTTGAAGTTGATGTAGAAATTGCCAAACAAT CTGTGACTATCAAGACCATGCTGGAAGATTTGGGAATGGATGATGAAGGAGATGATGATCCTGTTCCTTT ACCAAATGTTAATGCAGCAATTCTAAAGAAGGTCATTCAGTGGTGCACCCACC |
| | ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA |
| Protein Sequence: | >MR201292 protein sequence <mark>Red</mark> =Cloning site Green=Tags(s) |
| | MPTIKLQSSDGEIFEVDVEIAKQSVTIKTMLEDLGMDDEGDDDPVPLPNVNAAILKKVIQWCTHHKDDPP PPEDDENKEKRTDDIPVWDQEFLKVDQGTLFELILAANYLDIKGLLDVTCKTVANMIKGKTPEEIRKTFN IKNDFTEEEEAQVRKENQWCEEK |
| | TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| Restriction Sites: | Sgfl-Mlul |



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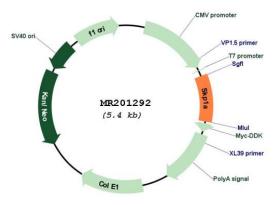


Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



| ACCN: | NM_011543 |
|-----------------|---|
| ORF Size: | 492 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. <u>More info</u> |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |

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| ORÎGENE Skp1a | (NM_011543) Mouse Tagged ORF Clone – MR201292 |
|------------------------|---|
| 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: | Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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: | <u>NM 011543.4, NP 035673.3</u> |
| RefSeq Size: | 1454 bp |
| RefSeq ORF: | 492 bp |
| Locus ID: | 21402 |
| UniProt ID: | <u>Q9WTX5</u> |
| Cytogenetics: | 11 31.86 cM |
| MW: | 18.7 kDa |
| Gene Summary: | Essential component of the SCF (SKP1-CUL1-F-box protein) ubiquitin ligase complex, which mediates the ubiquitination of proteins involved in cell cycle progression, signal transduction and transcription. In the SCF complex, serves as an adapter that links the F-box protein to CUL1. The functional specificity of the SCF complex depends on the F-box protein as substrate recognition component. SCF(BTRC) and SCF(FBXW11) direct ubiquitination of CTNNB1 and participate in Wnt signaling. SCF(FBXW11) directs ubiquitination of phosphorylated NFKBIA. SCF(BTRC) directs ubiquitination of NFKBIB, NFKBIE, ATF4, SMAD3, SMAD4, CDC25A, FBXO5, CEP68 and probably NFKB2. SCF(SKP2) directs ubiquitination of phosphorylated CDKN1B/p27kip and is involved in regulation of G1/S transition. SCF(SKP2) directs ubiquitination of QC1, CD11, RBL2, ELF4, CDKN1A, RAG2, FOXO1A, and probably MYC and TAL1. SCF(FBXW7) directs ubiquitination of cyclin E, NOTCH1 released notch intracellular domain (NICD), and probably PSEN1. SCF(FBXW2) directs ubiquitination of GCM1. SCF(FBXO32) directs ubiquitination of YBX1. SCF(FBXO11) directs ubiquitination of BIRC2 and DLGAP5. SCF(FBXO33) directs ubiquitination of YBX1. SCF(FBXO11) directs ubiquitination of RC16 and DTL but does not seem to direct ubiquitination frees the associated NFKB1-RELA dimer to translocate into the nucleus and to activate transcription. SCF(CCNF) directs ubiquitination of CCP110. SCF(FBXL3) and SCF(FBXL21) direct ubiquitination of CRY1 and CRY2. SCF(FBXO9) directs ubiquitination of TT11 and TELO2 (By similarity).[UniProtKB/Swiss-Prot Function] |

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