

Product datasheet for **MG201292**

Skp1a (NM_011543) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Skp1a (NM_011543) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Skp1a
Synonyms: 15kDa; 2610043E24Rik; 2610206H23Rik; EMC19; OCP-II; OCP2; p19A; p19Skp1; SKP1; Tceb11
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201292 representing NM_011543
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTACGATAAAGTTGCAGAGTTCTGATGGAGAGATATTTGAAGTTGATGTAGAAATTGCCAAACAAT
CTGTGACTATCAAGACCATGCTGGAAGATTTGGGAATGGATGATGAAGGAGATGATGATCCTGTTCTTT
ACCAAATGTTAATGCAGCAATTCTAAAGAAGGTCATTAGTGGTGCACCCACCACAAAGATGACCCTCT
CCTCCTGAGGATGATGAAAACAAAGAAAAGCGGACAGATGATATTCCTGTTTGGGACCAAGAATTCCTGA
AAGTTGACCAAGGAACACTTTTTGAACTTATTCTGGCTGCAAACTACTTAGACATCAAAGTTTGTCTTGA
TGTACATGCAAGACTGTGGCCAATATGATTAAGGGGAAAACCTGAGGAGATTCGTAACCTTCAAT
ATCAAAAATGACTTTACTGAAGAGGAAGAGGCCAGGTACGAAAAGAGAACCAATGGTGTGAAGAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201292 representing NM_011543
Red=Cloning site Green=Tags(s)

MPTIKLQSSDGEIFEVDVEIAKQSVTIKTMLEDLGMDDDDPVPLPNVNAAILKKVIQWCTHHKDDPP
PPEDDENKEKRTDDIPVWDQEFLLKVDQGLFELILAANYLDDIKGLLDVTCCKTVANMIKGTPEEIRKTFN
IKNDFTEEEEAQVRKENQWCEEK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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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:	<ol style="list-style-type: none">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:	<u>NM_011543.4, NP_035673.3</u>
RefSeq Size:	1441 bp
RefSeq ORF:	492 bp
Locus ID:	21402
UniProt ID:	<u>Q9WTX5</u>
Cytogenetics:	11 31.86 cM
Gene Summary:	<p>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 ORC1, CDT1, 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 MYOD1. SCF(FBXO7) directs ubiquitination of BIRC2 and DLGAP5. SCF(FBXO33) directs ubiquitination of YBX1. SCF(FBXO11) directs ubiquitination of BCL6 and DTL but does not seem to direct ubiquitination of TP53. SCF(BTRC) mediates the ubiquitination of NFKBIA at 'Lys-21' and 'Lys-22'; the degradation 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 TTI1 and TELO2 (By similarity).[UniProtKB/Swiss-Prot Function]</p>