

## Product datasheet for **MG225316**

### Skp2 (NM\_145468) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Skp2 (NM\_145468) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Skp2  
**Synonyms:** FBXL1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG225316 representing NM\_145468  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCATAGGAAGCACCTTCAGGAGATCCGGACCAGAGTGGCAACGTCACCACCAGCTTCACGTGGGGAT  
 GGGATTCCAGCAAGACTTCTGAAGTCTATCAGGCATGGGTGTCTCGGCCTTGGAGAAGGAGGAGGTGGA  
 CAGTGAGAACATCCACATGGACTGCTCTCAAACCTCGGCCACCCAGAGCCCTCAAGGAAACGAGTC  
 AAGGGCAAAGGGAGTGACAAAGACTTTGTGATCATCCGTCGGCCGAAGCTTAGTCGGGAGAACTTCCAG  
 GTGTCTCTGGGACTCCCTTCCAGATGAGCTGCTCCTTGGGATCTTTTCTGTCTGTGCCTCCCTGAGCT  
 GCTGAGAGTCTCGGGCGTTTGAAGAGGTGGTACCGCCTCTCGCTCGATGAGTCTCTCTGGCAGTCCCTC  
 GACCTCGCGGGTAAAAATCTGCACCCAGACGTGACTGTGCGCTTCTCTCCCGCGGGGTGGTTCGCTTCC  
 GCTGCCCTCGGTCTTTATGGAGCAGCCGCTGGGTGAAAGCTTCAGCTCTTCCGGGTACAGCACATGGA  
 CCTGTGCAACTCAGTGATAAATGTGCGAACCTCCATAAGATTCTGTCCGAGTGTCCAAGCTGCAGAAAT  
 CTAAGCCTGGAAGGCTGCAGCTCTCAGACCCATTGTCAAGACTCTTGCACAGAATGAAAACTTGGTGC  
 GACTAAACCTTTGTGGGTGCTCTGGGTTTTCTGAATCTGCCGTGGCGACTCTGCTAAGCAGCTGTCCAG  
 ACTGGATGAGCTAAATCTCTCTGGTGTCTTGACTTCACTGAAAAGCACGTGCAAGCGGCTGTGGCACAT  
 TTACCAAACCCATCACCCAGCTGAACCTCAGCGGCTACCGAAAGAACCTCCAGAAAACAGATCTTTGTA  
 CCATAATTAACGATGCCCAACCTCATCCGCTCGACTTAAGTGACAGTATCATGCTAAAGAATGACTG  
 CTTTCCAGAATTTTTCAACTCAACTACCTCCAACACCTCTCGCTCAGCCGGTGCTATGATAAATACCT  
 GATACTCTACTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG225316 representing NM\_145468  
 Red=Cloning site Green=Tags(s)

MHRKHLQEIPDQSGNVTTSTFTWGWDSKTSSELLSGMGVSALEKEEVDSENIPHGLLSNLGHPQSPPRKRV  
 KGKGSDDKDFVIRRPKLSRENFPGVSWDSLPEDELLGIFSCLCPELLRVSGVCKRWYRLSLDESLWQSL  
 DLAGKNLHPDVTVRLLSRGVVAFRCPRSFMEQPLGESFSSFRVQHMDLSNSVINVSNLHKILSECSKLQN  
 LSLEGLQLSDPIVKTLAQENLVRNLNLCGCSGFSESAVATLLSSCSRLDELNLSWCFDFTEKHVQAAVAH  
 LPNTITQLNLSGYRKNLQKTDLCTIIKRCPNLIRLDLSDSIMLKNDCFPEFFQLNLYLQHLSLSRCYDIIP  
 DTLL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_145468

**ORF Size:** 1062 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\\_145468.1](#), [NP\\_663443.1](#)

**RefSeq Size:** 6196 bp

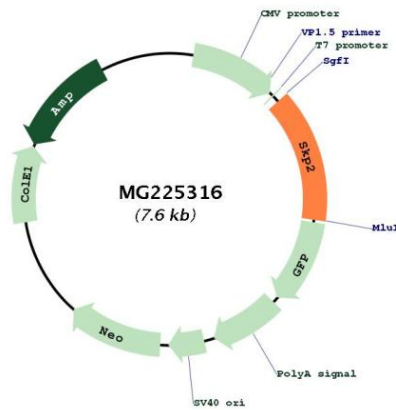
**RefSeq ORF:** 1065 bp

**Locus ID:** 27401

**Cytogenetics:** 15 A1

**Gene Summary:** Substrate recognition component of the SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins involved in cell cycle progression, signal transduction and transcription. The SCF complex provides substrate specificity and interacts with both, the E2 ubiquitin-conjugating enzyme and the substrate. Specifically recognizes phosphorylated CDKN1B/p27kip and is involved in regulation of G1/S transition. Degradation of CDKN1B/p27kip also requires CKS1. Promotes ubiquitination and destruction of CDH1 in a CK1-Dependent Manner, thereby regulating cell migration (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG225316