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Product datasheet for MR225316

Skp2 (NM_145468) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Skp2 (NM_145468) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Skp2
Synonyms:	FBXL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR225316 representing NM_145468
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCATAGGAAGCACCTTCAGGAGATTCCGGACCAGAGTGGCAACGTCACCACCAGCTTCACGTGGGGAT
GGGATTCCAGCAAGACTTCTGAACTGCTATCAGGCATGGGTGTCTCGGCCTTGGAGAAGGAGGAGGTGGA
CAGTGAGAACATCCCACATGGACTGCTCTCAAACCTCGGCCACCCCCAGAGCCCTCCAAGGAAACGAGTC
AAGGGCAAAGGGAGTGACAAAGACTTTGTGATCATCCGTCGGCCGAAGCTTAGTCGGGAGAACTTTCCAG
GTGTCTCCTGGGACTCCCTTCCAGATGAGCTGCTCCTTGGGATCTTTTCCTGTCTGTGCCTCCCTGAGCT
GCTGAGAGTCTCGGGCGTTTGCAAGAGGTGGTACCGCCTCTCGCTCGATGAGTCTCTCTGGCAGTCCCTC
GACCTCGCGGGTAAAAATCTGCACCCAGACGTGACTGTGCGCTTGCTCTCCCGCGGGGTGGTCGCCTTCC
GCTGCCCTCGGTCCTTTATGGAGCAGCCGCTGGGTGAAAGCTTCAGCTCTTTCCGGGTACAGCACATGGA
CCTGTCGAACTCAGTGATAAATGTGTCGAACCTCCATAAGATTCTGTCCGAGTGCTCCAAGCTGCAGAAT
CTAAGCCTGGAAGGCCTGCAGCTCTCAGACCCCATTGTCAAGACTCTTGCACAGAATGAAAACTTGGTGC
GACTAAACCTTTGTGGGTGCTCTGGGTTTTCTGAATCTGCCGTGGCGACTCTGCTAAGCAGCTGCTCCAG
ACTGGATGAGCTAAATCTCTCCTGGTGCTTTGACTTCACTGAAAAGCACGTGCAAGCGGCTGTGGCACAT
TTACCAAACACCATCACCCAGCTGAACCTCAGCGGCTACCGAAAGAACCTCCAGAAAACAGATCTTTGTA
CCATAATTAAACGATGCCCCAACCTCATCCGCCTCGACTTAAGTGACAGTATCATGCTAAAGAATGACTG
CTTTCCAGAATTTTTTCAACTCAACTACCTCCAACACCTCTCGCTCAGCCGGTGCTATGATATAATACCT
GATACTCTACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

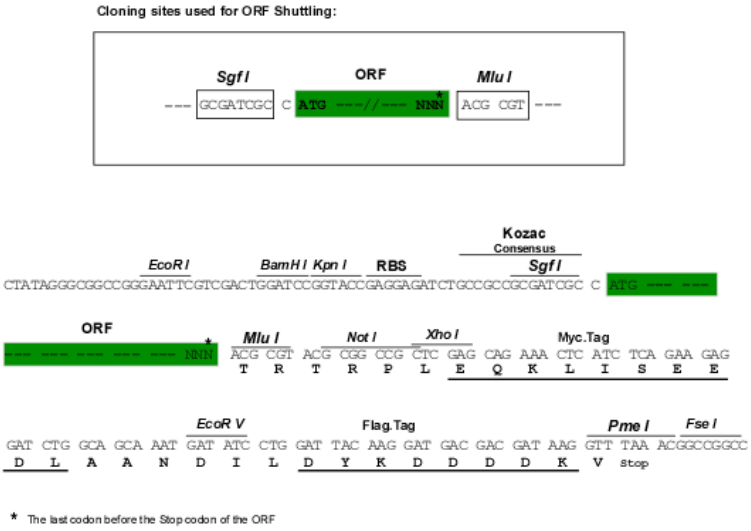
>MR225316 representing NM_145468
Red=Cloning site Green=Tags(s)

MHRKHLQEIPDQSGNVTTSFTWGWDSSKTSELLSGMGVSALEKEEVDSENIPHGLLSNLGHPQSPPRKRV
KGKGSDKDFVIIRRPKLSRENFPGVSWDSLPDELLLGIFSCLCLPELLRVSGVCKRWYRLSLDESLWQSL
DLAGKNLHPDVTVRLLSRGVVAFRCPRSFMEQPLGESFSSFRVQHMDLSNSVINVSNLHKILSECSKLQN
LSLEGLQLSDPIVKTLAQNENLVRLNLCGCSGFSESAVATLLSSCSRLDELNLSWCFDFTEKHVQAAVAH
LPNTITQLNLSGYRKNLQKTDLCTIIKRCPNLIRLDLSDSIMLKNDCFPEFFQLNYLQHLSLSRCYDIIP
DTLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

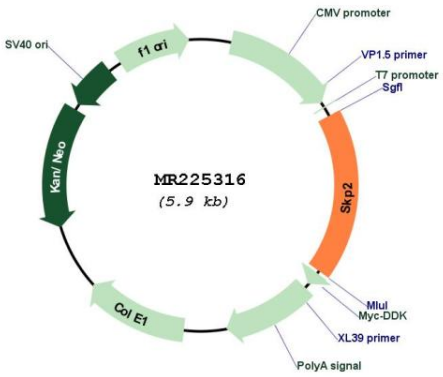
Locus ID: 27401

Cytogenetics: 15 A1

MW: 227.2 kDa

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 MR225316