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Product datasheet for MR202527

Trp53inp2 (NM_178111) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trp53inp2 (NM_178111) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trp53inp2
Synonyms:	1110029F20Rik; Tp53inp2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR202527 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCCAGCGCTTCACCAGCCTTTTCTTCAACACCCCTGCGCCTCCTGAAGACTCCAACTGTCCGGGGG
CCTTTGTCTCTGAGGAGGATGAAGTGGATGGCTGGCTCATCATCGACCTACAGGACAGCTATACAGCTCC
TCCCGACCCCGGGGCCTCGCCTGCTCCTGCAGGCCGCCCTCCACCCGCGCCCTCCTTGATGGATGAGAGC
TGGTTTGTTACCCCTCCCGCCTGTTTTACTGCAGAGGGGCCCGGCCTTGGGCCTGCCCGCCTCCAGAGCA
ATCCGCTGGAGGACCTCCTCATTGAGCATCCCAGCATGTCCGTTTATGTCACCGGCAGCACCATAGTGCT
GGAGTCTGGGCCACCTTCCCCTCACCCTGAAGCTGCCTTGCCTGATCAGGACCTCAGCGATGGAGAGCTG
GCGCCTGCCCTCCGGGAACCCAGGGCCTTGCACCACGCAGCTGCTCCTATGCCCGCTCGAGCTGTGCTGC
TGGAGAAGGCTGGCCAGGTGCGGAGGCTGCAGAGAGCCCGACAGCGGGCTGAGCGCCACACATTGAGTGC
TAAAGTGTTGCAACGGCAGAATCGCGCCCGGGAGAGCCGTTCGCGCCGGCCCAAGCACCAGGGCAGCTTT
ATTTACCAGCCGTGCCAGCGCCAGTTCAACTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

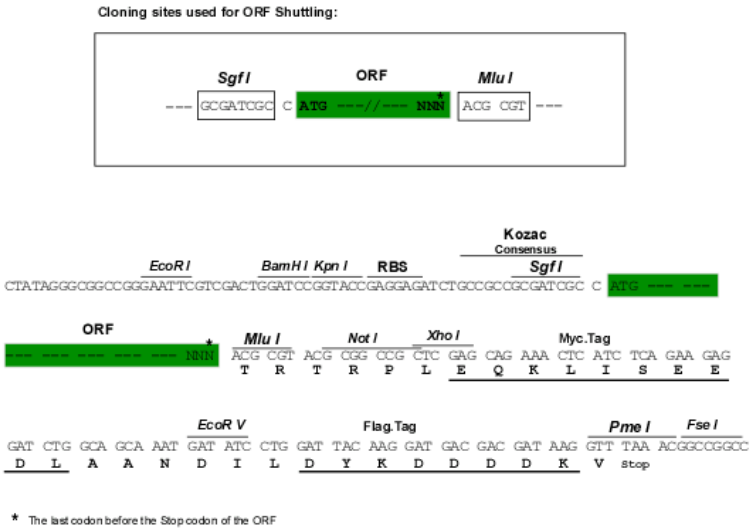
>MR202527 protein sequence
Red=Cloning site Green=Tags(s)

MFQRFTSLFFNTPAPPEDSNCPGAFVSEEDEVDGWLIIDLQDSYTAPPDPGASPAPAGRPPPAPSLMDES
WFVTPPACFTAEGPGLGPARLQSNPLEDLLIEHPSMSVYVTGSTIVLESGPPSPHPEAALPDQDLSDGEL
APALREPRALHHAAAPMPARAVLLEKAGQVRRLQRARQRAERHTLSAKVLQRQNRARESRSRRPKHQGSF
IYQPCQRQFNY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178111

ORF Size: 663 bp

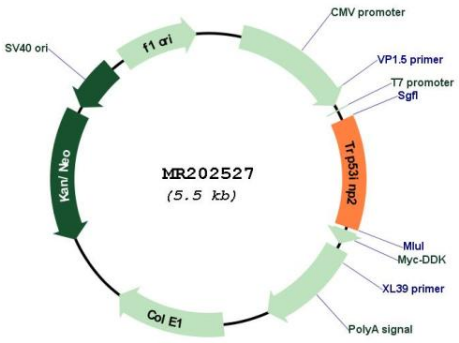
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_178111.3, NP_835212.1
RefSeq Size:	3934 bp
RefSeq ORF:	666 bp
Locus ID:	68728
UniProt ID:	Q8CFU8
Cytogenetics:	2 H1
MW:	24.3 kDa
Gene Summary:	Dual regulator of transcription and autophagy. Positively regulates autophagy and is required for autophagosome formation and processing. May act as a scaffold protein that recruits MAP1LC3A, GABARAP and GABARAPL2 and brings them to the autophagosome membrane by interacting with VMP1 where, in cooperation with the BECN1-PI3-kinase class III complex, they trigger autophagosome development. Acts as a transcriptional activator of THRA. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202527