

Product datasheet for MR211639

Trip12 (BC034113) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trip12 (BC034113) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trip12
Synonyms:	MGC31615
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR211639 representing BC034113 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTATCCAGCCAAGACCTGAAGATAGTAGTTGGAGCTCTTCAGATGGCAGAAATCCTAATGCAAAAGT
TACCTGATATTTTAGTGTCTTACCTCAGGAGAGAAGGTGTGATGCATCAAGTCAAACATTTAGCAGAATC
AGAGTCTTTGTTGACAAGTCCCCCAAGGCATGTACAAATGGGTGAGGATCCCTGGGATCTACAACACCA
GCCAGCAGTGGGACTGCAACGGCAGCAACCAACGCCTCTGCTGATCTGGGGTACCTAGCTTGCAGCATA
GCAGAGATGATTCTTTGGATCTGAGCCCTCAAGGTCGATTAAGTGATGTTCTCAAGAGAAAACGACTGCC
AAAACGAGGGCCAAGAAGGCCAAAATATCCCCTCCAAGAGATGATGACAAAGTAGACAATCAAGCTAAA
AGCCCCACCCTACTCAGTCACCTAAATCTTCTTCTGCAAGCTTGAATCCAAAAACATGGGGAAGGT
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AGGATGAAGAAAGTACTAAAGATTGTGTTGGTGGCAAAGGGGGAGAGCCCAAACAGCTCCAACAAAAAC
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ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>MR211639 representing BC034113
 Red=Cloning site Green=Tags(s)

MLSSQDLKIVVGALQMAEILMQKLPDIFSVYFRREGVMHQVHLAESESLTSPPKACTNGSGSLGSTTP
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 SPTTTQSPKSSFLASLNPKTWGRLSAQSNNSNIEPARTAGVSLARAASKDTISNNREKIKGWIKEQAHK
 FVERYFSSENMDGSPALNVLQRLCAATEQLNLQVDGGAELVEIRSIVSESDVSSFEIQHSGFVKQLLL
 YLTSKNEKDAVGREIRLKRFLHVFFSSPLPGEPPVGRVEPVGHAPLLALVHKMNCLSQMEQFPVKVHDF
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 LVIMTGNIPTWLTGKTCPPFFPDTRQMLFYVTAADRDRAMQRLLDTNPEINQSDSQDSRVAPRLDRK
 KRTVNREELLKQAESVMQDLGSSRAMLEIQYENEVGTGLGPTLEFYALVSQELQRADLCLWRGEEVTLN
 PKGSQEGTKYIQNLQGLFALPFGRATAKPAHIAKVKMKFRFLGKLMAKAIMDFRLVDLPLGLPFYKWMRLQ
 ETSLTSHDLFDIDPVVARSVYHLEDIVRQKRLQDKSQTKEQLYALELTMNGCSVEDLGLDFLPGF
 PNIELKKGKDIPIVTHNLEEYLRVIFWALNEGVCRRQFDSFRDGFESVFPFLCHLYFYPEELDQLLCCGS
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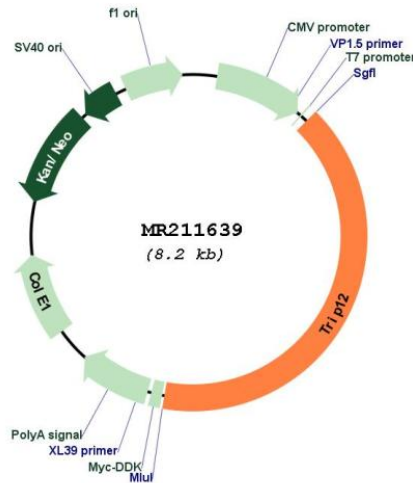
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC034113

ORF Size: 3309 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:	<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>BC034113</u> , <u>AAH34113</u>
RefSeq Size:	3945 bp
RefSeq ORF:	3311 bp
Locus ID:	14897
Cytogenetics:	1 C5
MW:	144.7 kDa
Gene Summary:	<p>E3 ubiquitin-protein ligase involved in ubiquitin fusion degradation (UFD) pathway and regulation of DNA repair. Part of the ubiquitin fusion degradation (UFD) pathway, a process that mediates ubiquitination of protein at their N-terminus, regardless of the presence of lysine residues in target proteins. In normal cells, mediates ubiquitination and degradation of isoform p19ARF/ARF of CDKN2A, a lysine-less tumor suppressor required for p53/TP53 activation under oncogenic stress. In cancer cells, however, isoform p19ARF/ARF and TRIP12 are located in different cell compartments, preventing isoform p19ARF/ARF ubiquitination and degradation. Does not mediate ubiquitination of isoform p16-INK4a of CDKN2A. Also catalyzes ubiquitination of NAE1 and SMARCE1, leading to their degradation. Ubiquitination and degradation of target proteins is regulated by interaction with proteins such as MYC, TRADD or SMARCC1, which disrupt the interaction between TRIP12 and target proteins. Acts as a key regulator of DNA damage response by acting as a suppressor of RNF168, an E3 ubiquitin-protein ligase that promotes accumulation of 'Lys-63'-linked histone H2A and H2AX at DNA damage sites, thereby acting as a guard against excessive spreading of ubiquitinated chromatin at damaged chromosomes.[UniProtKB/Swiss-Prot Function]</p>