

Product datasheet for **MG227533**

Trp63 (NM_001127260) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trp63 (NM_001127260) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trp63
Synonyms:	AI462811; delta; Ket; p6; p7; p51/p; P51/P63; P63; P73I; TAp; Tp63; Trp5; Trp53rp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227533 representing NM_001127260
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAATTTTGAACCTTCACGGTGTGCCACCTACAGTACTGCCCCGACCCTTACATCCAGCGTTTCATAG
 AAACCCAGCTCATTCTCGTGGAAAGAAAGTTATTACAGATCTGCCATGTCGCAGAGCACCCAGACAAG
 CGAGTTCTCAGCCCAGAGGCTTCCAGCATATCTGGATTTTCTGGAACAGCCTATATGCTCAGTACAG
 CCCATCGAGTTGAACTTTGTGGATGAACCTTCCGAAAATGGTGAACAAACAAGATTGAGATTAGCATGG
 ATTGTATCCGCATGCAAGACTCAGACCTCAGTGACCCCATGTGGCCACAGTACACGAACCTGGGGCTCT
 GAACAGCATGGACCAGCAGATTGAGAACGGCTCCTCGTCCACCAGCCCCTACAACACAGACCACGCACAG
 AATAGCGTGACGGCGCCCTCGCCCTATGCACAGCCAGCTCCACCTTTGATGCCCTCTCTCCATCCCCTG
 CCATTCCCTCAAACACAGATTACCCGGGCCACACAGCTTCGATGTGCCTTCCAGCAGTCAAGCACTGC
 CAAGTCAGCCACCTGGACGTATCCACCGAAGTGAAGAAGCTGTACTGCCAGATTGCGAAGACATGCCCC
 ATCCAGATCAAGGTGATGACCCACCCACAGGGCGCTGTTATCCGTGCCATGCCTGTCTACAAGAAAG
 CTGAGCATGTACCGAGGTTGTGAAACGATGCCCTAACCATGAGCTGAGCCGTGAGTTCAATGAGGGACA
 GATTGCCCTCCCAGTCTCTGATTGAGTAGAAGGGAACAGCCATGCCAGTATGTAGAAGATCCTATC
 ACGGGAAGGCAGAGCGTGTGTCCTTATGAGCCACCACAGGTTGGCACTGAATTCACAACAGTCTGT
 ACAATTTTCATGTGAACAGCAGCTGCGTCGGAGGAATGAACAGACGTCCAATTTTAAATCATCGTTACTCT
 GGAAACCAGAGATGGGCAAGTCTGGGCCGACGGTGTCTTGGAGCCCGGATCTGTGCTTGCCAGGAAGA
 GACCGGAAGGCAGATGAAGACAGCATCAGAAAGCAGCAAGTATCGGACAGCGCAAAGAACGGCGATGGTA
 CGAAGCGCCCTTCCGTGAGAATACACACGGAATCCAGATGACTTCCATCAAGAAACGGAGATCCCAGA
 TGATGAGCTGCTGTACCTACCAGTGAGAGGTCGTGAGACGTACGAGATGTTGCTGAAGATCAAAGAGTCA
 CTGGAGCTCATGCAGTACCTCCCTCAGCACAGTACGAAACGTACAGGCAGCAGCAGCAGCAGCAGCACC
 AGCACCTACTTCAGAAACAGACCTCGATGCAGTCTCAGTCTTATATGGCAACAGTTCGCCACCTTGAA
 CAAAATGAACAGCATGAACAAGTGCCTTCCGTGAGCCAGCTTATCAACCCACAGCAGCGCAATGCCCTC
 ACTCCCACCACCTGCCTGAGGGCATGGGAGCCAAACATTCCTATGATGGGCACTCACATGCCAATGGCTG
 GAGACATGAATGGACTCAGCCCTACCAAGCTCTCCCTCCTCCACTCTCCATGCCCTCCACCTCCCCTG
 CACCCACCACCGCCCTACCCACAGACTGCAGCATTGTCAGGATTTGGCAAGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG227533 representing NM_001127260
 Red=Cloning site Green=Tags(s)

MNFETSRCATLQYCPDPYIQRFIETPAHFSWKESYYRSAMSQSTQTSEFLSPEVQHIWDFLEQPICSVQ
 PIELNFVDEPSENGATNKIEISMDCIRMQDSDLSDPMWPQYTNLGLLNSMDQIQNGSSSTSPYNTDHAQ
 NSVTAPSPYAQPSSTFDALSPSPAIPSNTDYPGPHSFDVSFQSSSTAKSATWTYSTELKKLYCQIAKTCP
 IQIKVMTPPPQGAIVIRAMPVYKKAHEVTEVVKRCPNHEL SREFNEGQIAPPSHLIRVEGNASHAQYVEDPI
 TGRQSVLVPYEPQVGTFTVL YNFMCNSSCVGGMNRRPILIIVTLETRDGQVLGRRCFEARICACPGR
 DRKAEDSIRKQQVSDSAKNGDGTKRPFQNTHTGIQMTSIIKRRSPDDELLYLPVRGRETYEMLLIKES
 LELMQYLPQHTIETYRQQQQQHLLQKQTSMQSQSSYGNSSPPLNKMNSMKNLPSVSQLINPQQRNAL
 TPTTMPEGMGANIPMMGTHMPMAGDMNGLSPTQALPPPLSMPSTSHCTPPPPYPTDCSIVRIWQV

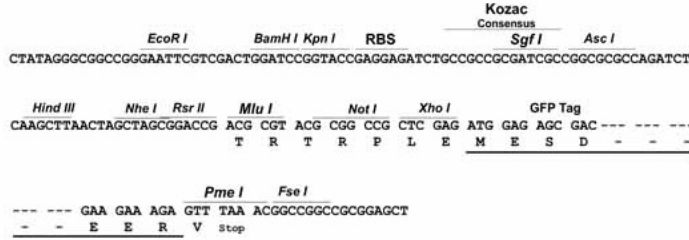
TRTRPLE – GFP Tag – V

Restriction Sites:

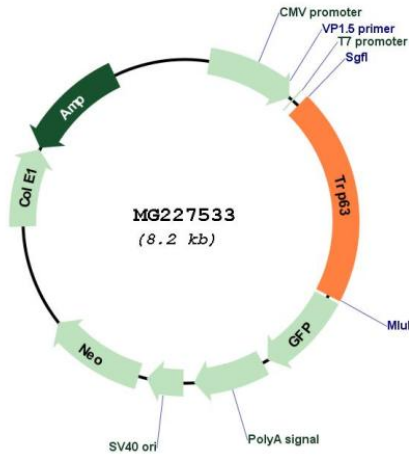
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN:	NM_001127260
ORF Size:	1665 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	NM_001127260.1 , NP_001120732.1
RefSeq Size:	5288 bp
RefSeq ORF:	1668 bp
Locus ID:	22061
UniProt ID:	O88898
Cytogenetics:	16 17.37 cM

Gene Summary:

This gene encodes tumor protein p63, a member of the p53 family of transcription factors involved in cellular responses to stress and development. The family members include tumor proteins p53, p63, and p73, which have high sequence similarity to one another. This similarity allows p63 and p73 to transactivate p53-responsive genes causing cell cycle arrest and apoptosis. The family members can interact with each other in many ways, including direct and indirect protein interactions. This results in mutual regulation of target gene promoters. Tumor protein p63 $-/-$ mice have several developmental defects which include the lack of limbs and other tissues, such as teeth and mammary glands, which develop as a result of interactions between mesenchyme and epithelium. Both alternative splicing and the use of alternative promoters result in multiple transcript variants encoding different protein isoforms.[provided by RefSeq, Dec 2009]