

## Product datasheet for **RN200156**

### **Tp63 (NM\_019221) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tp63 (NM_019221) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Tp63
Synonyms:	Ket; P73l; Tp73l; Trp63
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>NM\_019221 ORF sequence, RN200156 may differ due to SNPs.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAATTTTGAACCTTCACGGTGTGTACCCCTACAGTACTGCCCTGACCCTTACATCCAGCGTTTCATA
GAAACCCATCTCATTCTCCTGGAAAGAAAGTTATTACCGTCCGCCATGTCGAGAGCACCCAGACA
AGTGAGTTCCTCAGCCCAGAGGTGTTCCAGCATATCTGGGATTTTCTGGAACAGCCTATATGCTCAGTA
CAGCCCATCGACTTGAACCTTGTGGACGAACCATCAGAAAATGGTGCAACAAACAAGATTGAGATTAGC
ATGGATTGTATCCGCATGCAAGACTCAGACCTCAGTGACCCCATGTGGCCACAGTACACGAACCTGGGG
CTCCTGAACGGCATGGACCAGCAGATTCAGAACGGCTCCTCATCTACCAGCCCCTATAACACAGACCAT
GCACAGAACAGCGTGACGGCACCCCTCGCCCTATGCACAGCCCAGCTCAACCTTCGATGCCCTTCTCCA
TCCCCTGCCATTCCCTCCAACACAGATTACCCAGGCCACACAGCTTCGATGTGCTCTCCAGCAGTCA
AGCACCGCCAAGTCAGCTACCTGGACGTATTCCACCGAACTGAAGAACTCTACTGCCAGATTGCAAG
ACCTGCCCATCCAGATCAAGGTGATGACCCACCCACAGGGCGCGTCATTCTGTCATGCCCTGTC
TACAAGAAAGCCGAGCATGTACCGAGGTTGTGAAACGATGTCTTAACCAGAGCTGAGCCGCGAGTTC
AATGAGGGACAGATTGCCCTCCAGTCATCTGATTTCGAGTAGAAGGGAACGCCATGCCAGTATGTA
GAAGATCCTATACAGGAAGGCAGAGCGTGCTGGTCCCTTATGAGCCACCACAGTTGGCACTGAATTC
ACAACAGTCTGTACAATTTTATGTGCAACAGCAGCTGTGTGGAGGAATGAACCGCCGTCGAATTTTA
ATCATCGTTACTCTGAAACAGAGATGGGCAAGTCTGGGCCGACGTTGCTTTGAGGCCGGATCTGC
GCTTGGCCAGGAAGAGACCGGAAGGCCGATGAAGACAGCATCAGAAAGCAGCAAGTATCAGACAGCGCA
AAGAACGGCGATGGTACGAAGCGCCCTTCCGTGAGAATACCCACGGAATCCAGATGACTCCATCAAG
AAACGGAGATCCCAGATGATGAGCTGCTGACTACCTACCAGTGAGAGCCGTGAGACTTATGAAATGCTG
CTCAAGATCAAGGAGTCGCTCGAGCTCATGCAGTATCTCCCTCAGCACAGCATCGAGACGTACAGGCAG
CAGCAGCAGCAGCAGCACCAACCTACTTCAGAAACAGACCTCGATGCAGTCTCAGTCTTCATACGGT
AACAGCTCACACCTCTGAACAAAATGAACAGCATGAACAAGCTGCCGTCTGTGAGCCAGCTTATCAAC
CCACAGCAGCGCAACGCCCTGACTCCCACCACCATGCCTGAGGGCATGGGAGCCAACATTCCTATGATG
GGCACTCACATGCCAATGGCTGGAGACATGAATGGACTCAGCCCCACCAAGCTCTTCTCCTCCACTC
TCCATGCCCTCCACTCCACTGCACCCCCCACCTCCGTACCCAACAGACTGCAGCATTGTCAGTTTC
TTAGCAAGTTGGGCTGTTTCATCATGTCTGGACTATTTACGACCCAGGGGCTGACCACCATCTACAG
ATTGAGCATTACTCCATGGATGATTTGGCAAGTCTGAAGATCCCTGAGCAGTTCGGACATGCCATCTGG
AAGGGGATCCTGGACCACAGGCAGCTGCATGACTTCTCCTCACCTCCGCATCTCCTGAGAACCCCAAGT
GGTGCCTCTACAGTCAGTGTGGGCTCCAGTGAGACCCGTGGAGAAGTGTGATTGATGCCGTGCGCTTT
ACTCTCCGCCAGACCATCTTTCCACCCCGTATGAGTGAACGATTTCAACTTTGACATGGATTCC
CGTCGCAACAAGCAGCAGCGCATCAAAGAGGAAGGAGAATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

**Protein Sequence:**

```
MNFETSRCATLQYCPDPYIQRFIETPSHFSWKESYYRSAMSQSTQTSEFLSPEVFQHIWDFLEQPICSV
QPIDLNFVDEPSENGATNKIEISMDCIRMQDSDLSDPMWPQYTNLGLLNGMDQIQNGSSSTSPYNTDH
AQNSVTAPSPYAQPSSTFDALSPSPAIPNSNDYPGPHSFDVFSQSSSTAKSATWTYSTELKKLYCQIAK
TCPIQIKVMTPPPQGA VIRAMPVYKKAHVTEVVKRCPNHEL SREFNEGQIAPPSHLIRVEGNSHAQYV
EDPITGRQSVLVPYEPPQVGTEFTTFLYMFMCNSSCVGGMNRRPILIIIVTLETRDQVLRRCFEARIC
ACPRDRKAEDESIKQVSDSAKNGDGTKRPFQNTHTGIQMTSIIKRRSPDELLYLPRGRETYEML
LKIKESLELMQYLPQHTIETYRQQQQHQHLLQKQTSMQSQSSYGNSSPPLNKMNSMNLKPSVSQLIN
PQQRNALPTTMEPGMGANIPMMGTHMPMAGDMNGLSPTQALPPPLSMPSTSHCTPPPPYPTDCSIVSF
LARLGCSSCLDYFTTQGLTTIYQIEHYSMDDLASLKIPEQFRHAIWKGILDHRQLHDFSSPHLLRTPS
GASTVSVGSSETRGERVIDAVRFTLRQTI SFPPRDEWDFNFMDMSRRNKQQRKEEGE*
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
```

**Fully Sequenced ORF:** >RN200156 representing NM\_019221  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAATTTTGAACCTTCACGGTGTGCTACCTACAGTACTGCCCTGACCCTTACATCCAGCGTTTCATAG  
 AAACCCCATCTCATTCTCCTGGAAGAAAGTTATTACCGGTCCGCCATGTCGCAGAGCACCCAGACAAG  
 TGAGTTCTCAGCCCAGAGGTGTTCCAGCATATCTGGATTTTCTGGAACAGCCTATATGCTCAGTACAG  
 CCCATCGACTTGAACCTTGTGGACGAACCATCAGAAAATGGTGCAACAAACAAGATTGAGATTAGCATGG  
 ATTGTATCCGCATGCAAGACTCAGACCTCAGTGACCCCATGTGGCCACAGTACACGAACCTGGGGCTCT  
 GAACGGCATGGACCAGCAGATTCAGAACGGCTCCTCATCTACCAGCCCTATAACACAGACCATGCACAG  
 AACAGCGTGACGGCACCCCTCGCCCTATGCACAGCCAGCTCAACCTTCGATGCCCTTTCTCCATCCCCTG  
 CCATTCCCTCAAACACAGATTACCCAGGCCACACAGCTTCGATGTGCCTTCCAGCAGTCAAGCACCGC  
 CAAGTCAGCTACCTGGAGTATTCCACCGAAGTGAAGAACTCTACTGCCAGATTGCAAAGACCTGCCCC  
 ATCCAGATCAAGGTGATGACCCACCCACAGGGCGCCGTCATTTCGTGCCATGCCTGTCTACAAGAAAG  
 CCGAGCATGTACCGAGGTTGTGAAACGATGTCCTAACCCAGAGCTGAGCCGCGAGTTCAATGAGGGACA  
 GATTGCCCTCCCAGTCACTGATTTCGAGTAGAAGGGAACAGCCATGCCAGTATGTAGAAGATCCTATC  
 ACAGGAAGGCAGAGCGTGCTGGTCCCTTATGAGCCACCACAGGTTGGCACTGAATTCACAACAGTCTGT  
 ACAATTTTCATGTGCAACAGCAGCTGTGTCGGAGGAATGAACCGCCGTCGAATTTTAAATCATCGTTACTCT  
 GGAAACCAGAGATGGGCAAGTCTGGGCCGACGTTGCTTTGAGGCCGGATCTGCGCTTGCCAGGAAGA  
 GACCGGAAGGCCGATGAAGACAGCATCAGAAAGCAGCAAGTATCAGACAGCGCAAAGAACGGCGATGGTA  
 CGAAGCGCCCTTCCGTCAGAATACCCACGGAATCCAGATGACTTCCATCAAGAAACGGAGATCCCAGA  
 TGATGAGCTGCTGTACCTACCAGTGAGAGGCCGTGAGACTTATGAAATGCTGCTCAAGATCAAGGAGTCG  
 CTCGAGCTCATGCAATCTCCCTCAGCACAGTACGAGAGCTACAGGCAGCAGCAGCAGCAGCAGCAGCACC  
 AACACCTACTTCAGAAACAGACCTCGATGCAGTCTCAGTCTTACACGGTAACAGCTCACCACTCTGAA  
 CAAAATGAACAGCATGAACAAGTGCCTGTGTGAGCCAGCTTATCAACCCACAGCAGCGCAACGCCCTG  
 ACTCCCACCACCATGCCTGAGGGCATGGGAGCCAACTTCTATGATGGCACTCACATGCCAATGGCTG  
 GAGACATGAATGGACTCAGCCCCACCAAGCTTCTCCTCCTCACTTCCATGCCCTCCACTCCCCTG  
 CACCCCCCACCTCCGTACCCAACAGACTGCAGCATTGTCAGTTTCTTAGCAAGGTTGGGCTGTTATCA  
 TGCTGGACTATTTACGACCCAGGGGCTGACCACCATCTATCAGATTGAGCATTACTCCATGGATGATT  
 TGGCAAGTCTGAAGATCCCTGAGCAGTTCGACATGCCATCTGGAAGGGGATCCTGGACCACAGGCAGCT  
 GCATGACTTCTCCTCACCTCCGATCTCCTGAGAACCCCAAGTGGTGCCTCTACAGTCAGTGTGGGCTCC  
 AGTGAGACCCGTGGAGAACGTGTGATTGATGCCGTGCGCTTTACTCTCCGCCAGACCATCTTTCCAC  
 CCCGTGATGAGTGGAACGATTTCACTTTGACATGGATTCCCGTCGCAACAAGCAGCAGCGCATCAAGA  
 GGAAGGAGAA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_019221
- Insert Size:** 2043 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_019221.4](#)

**RefSeq Size:** 4968 bp

**RefSeq ORF:** 2043 bp

**Locus ID:** 246334

**UniProt ID:** [Q9JJP6](#)

**Cytogenetics:** 11q22

**MW:** 76.8 kDa

**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 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. Both alternative splicing and the use of alternative promoters result in multiple transcript variants encoding different protein isoforms.[provided by RefSeq, Dec 2009]  
Transcript Variant: This variant (1) encodes the longest isoform (a, also known as TA2KETalpha).