

Product datasheet for **MG222286**

Topors (NM_134097) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Topors (NM_134097) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Topors
Synonyms:	AW105885; LUN; p53BP3/LUN; TP53BPL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222286 representing NM_134097 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGTCGCAGCCGCCGCCACCGGGTCTCCGCTGTCTCGGAGGAGGTGAAGCGCCCCCTCTGGTGC
 CTGCCGAGGAGGGGAGCGCCGAAGCCGCGGGTACGCCCTTCGCGGATCCTGCCGCCACCGGCCGAGCTT
 ACTGAGCCGGCGGGAGCTGGCTTCCAACGGCCAGCGTTCTGCCACCGCGTCTCGGAGATAATGGCC
 TCAGCTGCTAAGGAATTTAAATGGACAACCTTTACCTAAAGCTGGCACTAGCAAATTCAGCAGACAG
 TACCAGCTGATGCGTCTCCTGATTCTAAGTGTCTATATGCTTGGATAGATTTGATAATGTGTCTTACTT
 AGATCGTTGCCTACATAAGTTCTGTTTTCGCTGTGTACAAGAGTGGTCCAAAACAAAGCCGAATGCCCA
 CTGTGTAACAGCCCTTTGATTCTATTTCCATTCACTGAGGGCTGAAGATGACTTCAAGGAGTATGTCC
 TGAGGCCCTTCTATAATGGTTCTTTACTAACCCTGAGGTTTGAAGGTTTCGCTACCGGACAACCTATGAC
 GAGAGAACGGAGCGCCTCTTTATTACCCAGTAGTACTGTAAGTAGGAGAACAACCACGCCACCAGAT
 AGTGGAGTGCTGTTTGAAGGTTAGGCATTTCAACAAGACCTAGAGATGTTGACATTCCTCAATTTATGA
 GACAAATGGCATTAAAGGGGGCAACTACTACAGATGAGAGATCTTTGCGGAAAATTCAAGAACAAGATAT
 TATTAATTTCAAGCGAACTCTTTATCGTGCTGGTGTTCGAGTTAGAAGTATTGAAGATGGTGGCCGCTAC
 AGGGATATTTCACTGAGTTCTTCCGTAGAAATCCAGCTTGCCTTCACAGATTAGTTCCTTGGTTAAAGC
 GTGAACCTTACTGTGCTTTTGGAGCCCATGGTTGCTAGTCAATATCGTCCAGCACATCATGAGTAA
 TGTTACTCGCTATGATTTGGAGAGTCAGGCATTTGTGTCTGACTTAAGACCATTTTGTCTAATCGAACT
 GAGCATTTTATACATGAATTTATCAGTTTTGTAGATCTCCCTTCAATATGGCAGCTTTTGACCAGCATG
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 ACAGTTTCAGATGAAGAGCTTGTCTCTGGAGGAACCATCTCAGATACAAGGAGTACAGACCAATGACGA
 TGCAATAATGACAGTGATTCATCGTCAGATAATTGTGTCTGTTGGGTTTGTAAAGCCACTGGCTGAA


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AGGACCCCGGAACCTGTTGAACTGTCTTCTGATTCTGAGGAGTTGGGCCCTTATGAGAAAGTGGAGACAG
TGAAGACTCAGGAGCAAGAGCAGTCGTACAGTTCAAGTGACAGTGATGTTAGCCGGGCGTCATCTCCACG
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AACAAATGCGAGGAAGAAGAATCACAGTGAAAGGAAATACTACTATGAAAGGCGCCGGTCCAGGAGC
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AGCGATGGAGAGTCTGAAGTAAAGGCGGGTATTGAATGTAGCAATGGCAGTCTTCCACAGCCTATAACA
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CGTTACAGCACTTGCTGATGACTTGAGCACCAGCCAACTGTGGAGAATTGTGACTCGCCGGCAGTCCCA
GTTGAACAACTCTTGATGTAAGAGAAGAAAGCACCTTTGCCTCTGATTGGAGAGCCAGTCGAGTAATG
TGCTATTTCAGGCTGAACCATCGAGACCACTGCCATCTCCAGGACCTCACTGTATCAGTGTCTCTCTGG
TAGAGACTGTGATGTGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG222286 representing NM_134097
Red=Cloning site Green=Tags(s)

MGSQPPPPGSPLSREEGEAPPLVPAEEGRRRSRRLRGSCRHRPSLLSRRELASNGPAVPATASSEIMA
SAAKEFKMDNFSKAGTSKLQQTVPADASPDSCPICLDRFDNVSYLDRCLHKFCFRVQEWSKNKAACP
LCKQPFDSIFHSVRAEDDFKEYVLRPSYNGSFTNPEVRRFRYRTMTREASLYSPSSVSRRTTTPPD
SGVLFEGLGISTRPRVDIPQFMRQMALRGPTTDERSLRKIQEQDIINFRTLYRAGVRVRSIEDGGRY
RDISAEFFRRNPACLHRLVPWLKRELTVLFGAHGSLVNIQVHIIMSNVTRYDLESQAFVSDLRPFLNRT
EHFIHEFISFARSPFNMAAFDQHANYDCPPSSEEGSRSDSSVITISPDEAETQELDMNASTVRQAPWDDE
TPGPSYSSSEQVHVGVSSLLNSSDSSDEELVSGGTTSQIQGVQTNDDVNNDSDSSDNCVIVGFVKPLAE
RTEPELVSSDSEELGPYEKVEVKTQEQEQSYSSGSDSVSRASSPRSVLGKDEQMSKSHCSDTRISSK
KEEKRSTSLPAPRDSSSTRGDRVCSPYNHRHRKGGRSRSSDSRSQSRSGHDPNRHHRKHGKRPRNKR
RESSSRPRARKDKKRSRTRDSSWSRRSQTLSLSSGSTSRSRSSSDHGRARRSRNRDRYYLRNNYGSKY
KWEYTYYSRNKDRDGYESSYRRRTLRAHYSRQSSPEFRIQSFERTNARKKNHSEKYYYYERRRSRS
VSSNRSRTTSAGPDRVRNEKPGGKRKYTRHLEGTSEEAPAREFTSKGKDSHYQKSKLDGSYKNESDSF
SDSRSSDRETKHKRRRRRTRSLVEIVYEGKATDTSKHHKKKKKKKKKKHHGDNTSRSPVITIDSD
SDGESEVKAGIECSNGSLPQPIQDGAFTKDVVTIEDELGVLDKDCDVTALADDLSTQTVENCDSAPVP
VEQTLDVREESTFASDLESQSSNVSIQAEPSPVPSPRTSLSSVSPGRDCDVS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_134097

ORF Size: 3099 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.

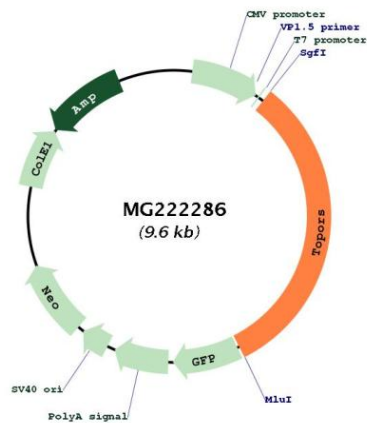
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_134097.3](#), [NP_598858.2](#)

RefSeq Size: 3842 bp
 RefSeq ORF: 3102 bp
 Locus ID: 106021
 UniProt ID: [Q80Z37](#)
 Cytogenetics: 4 A5

Gene Summary: Functions as an E3 ubiquitin-protein ligase and as a E3 SUMO1-protein ligase. Probable tumor suppressor involved in cell growth, cell proliferation and apoptosis that regulates p53/TP53 stability through ubiquitin-dependent degradation. May regulate chromatin modification through sumoylation of several chromatin modification-associated proteins. May be involved in DNA-damage-induced cell death through IKBKE sumoylation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG222286