

Product datasheet for RC229201

TBRG1 (NM_032811) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBRG1 (NM_032811) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TBRG1
Synonyms:	NIAM; TB-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229201 representing NM_032811 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCTGCTGGACGGCCTCGTTCTCGCCGGGGCTCCGCTGCAGTCCAGCAAGGCCAGGATGAAAA
AGCTCCCGAAGAAGAGCCAGAATGAGAAGTACCGGCTGAAGTACCTGCGGCTGCGCAAAGCGCCAAAGGC
CACGGTGTGGAAATGCTGCTATTTGTGATGAAATTGCTCGTCTTGAGGAAAAATTTCTTAAAGCAAAA
GAAGAAAGAAGTACTTGTAAAGAAGCTCCTCCAGTTCAGGCTCTAACTGAAGGGGAAGTACAGGCTG
CAGCTCCTCCACAGTCCAGTTTGCCTGACTTATGGTGTGGCCAGCTCTGTGGAACTATACAGGG
AGCTGGGCCTATTCAGGGCCCAGCACTGGGGCTGAGGAACCTTTGGGAAGAAAATAAGAAAGGAGAAA
AAAGAAAAGGCCAAAGAGAAACAACAAGTGAAGTTCTGAAGAAAACATGCAAGAAAAAGAAAATGGCGG
GAGGTGCTCGCAAGCTGGTTCAGCCATTGCCCTGGATCCCTCAGGACGGCCTGTGTTCCCATCGGACT
AGGGGGTCTAACAGTATATAGCCTGGGGAGATCATCACCGACCGACCTGGCTTTCATGATGAGAGTGCC
ATCTACCCCGTGGGCTATTGCAGTACTCGAATATATGCCAGCATGAAGTGCCAGACCAGAAGTGTCTAT
ATACCTGTCAGATCAAGGATGGTGGTGTGCAGCCTCAGTTTGAATTTGTTCTGAAGATGACCCCGAA
TGCCATTGTCAGCTCTTCTGCAGATGCTTGTGCAGAACTGCTCAGGACTATAAGCACTACTATGGGG
AACTAATGCCTAACCTGCTTCCAGCTGGAGCTGACTTTTTTGGATTTTCTCATCCAGCCATCCACAAC
TGATCCAGAGCTGTCCAGGAGCTCGAAAATGCATCAATTACAGTGGGTGAAATTTGATGTGTGCAACC
TGGAGATGGGCAGCTACCTGAGGGGCTGCCGGAATGATGCAGCTATGAGCTTTGAAGCCTTTCAGAGA
CAGATCTTTGATGAAGATCAGAATGATCCCTTCTGCCAGGATCCTTGGACCTCCAGAGCTTCAGCCTG
CAGCCTTTGTGCTTCTTACCAGCCATGTACCTGACACATGAACCCTTGGTAGATACTCACCTGCAGCA
CTTGAAGTCTCCATCACAGGGTAGCCCAATTCAGTCTTCAGAT

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC229201 representing NM_032811
Red=Cloning site Green=Tags(s)

MSLLDGLASSPRAPLQSSKARMKKLPKKSQNEKYRLKYLRLRKAATVFENAAICDEIARLEEKFLKAK
 EERRYLLKLLQLQALTEGEVQAAAPSHSSSLPLTYGVASSVGTIQGAGPISGPSTGAEFPFGKTKKEK
 KEKGKENNKLEVLKKTCKKKKMAGGARKLVQPIALDPSGRPVFPIGLGGLTVYSLGEIITDRPGFHDESA
 IYPVGYCSTRIYASMKCPDQKCLYTCQIKDGGVQPQFEIVPEDDPQNAIVSSADACHAELLRTISTTMG
 KLMPNLLPAGADFFGFSPAIHNLIQSCPGARKCINYQWVKFDVCKPGDGQLPEGLPENDAAMSFEAFQR
 QIFDEQNDPLLPGLDLPELQPAAFVSSYPMYLTHEPLVDTHLQHLKSPSQGSPIQSSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4161_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_032811

ORF Size: 1233 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.

RefSeq: [NM_032811.3](#)

RefSeq ORF: 1236 bp

Locus ID: 84897

UniProt ID: [Q3YBR2](#)

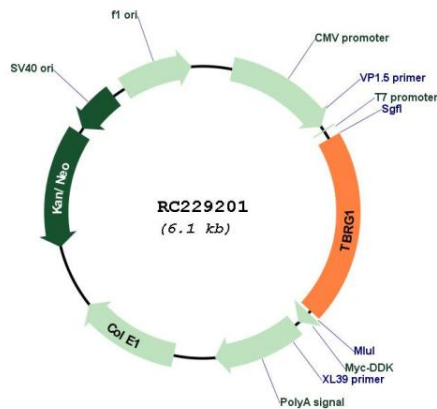
Cytogenetics: 11q24.2

Domains: FYRN, FYRC

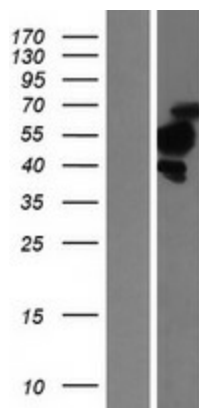
MW: 44.8 kDa

Gene Summary: Acts as a growth inhibitor. Can activate p53/TP53, causes G1 arrest and collaborates with CDKN2A to restrict proliferation, but does not require either protein to inhibit DNA synthesis. Redistributes CDKN2A into the nucleoplasm. Involved in maintaining chromosomal stability. [UniProtKB/Swiss-Prot Function]

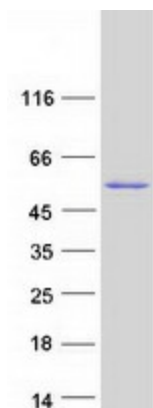
Product images:



Circular map for RC229201



Western blot validation of overexpression lysate (Cat# [LY432225]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229201 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TBRG1 protein (Cat# [TP329201]). The protein was produced from HEK293T cells transfected with TBRG1 cDNA clone (Cat# RC229201) using MegaTran 2.0 (Cat# [TT210002]).