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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:

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>RC229201 representing NM_032811
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCCTGCTGGACGGCCTCGCTTCCTCGCCGCGGGCTCCGCTGCAGTCCAGCAAGGCCAGGATGAAAA
AGCTCCCGAAGAAGAGCCAGAATGAGAAGTACCGGCTGAAGTACCTGCGGCTGCGCAAAGCGGCCAAGGC
CACGGTGTTTGAAAATGCTGCTATTTGTGATGAAATTGCTCGTCTTGAGGAAAAATTTCTTAAAGCAAAA
GAAGAAAGAAGGTACTTGCTAAAGAAGCTCCTCCAGCTTCAGGCTCTAACTGAAGGGGAAGTACAGGCTG
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ATCTACCCCGTGGGCTATTGCAGTACTCGAATATATGCCAGCATGAAGTGCCCAGACCAGAAGTGTCTAT
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TGCCATTGTCAGCTCTTCTGCAGATGCTTGTCATGCAGAACTGCTCAGGACTATAAGCACTACTATGGGG
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TGATCCAGAGCTGTCCAGGAGCTCGAAAATGCATCAATTACCAGTGGGTGAAATTTGATGTGTGCAAACC
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CAGATCTTTGATGAAGATCAGAATGATCCCCTTCTGCCAGGATCCTTGGACCTCCCAGAGCTTCAGCCTG
CAGCCTTTGTGTCTTCTTACCAGCCCATGTACCTGACACATGAACCCTTGGTAGATACTCACCTGCAGCA
CTTGAAGTCTCCATCACAGGGTAGCCCAATTCAGTCTTCAGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

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

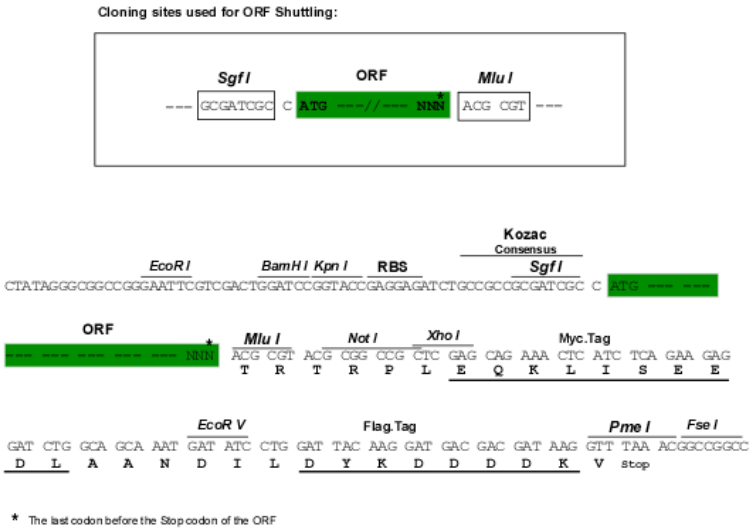
MSLLDGLASSPRAPLQSSKARMKKLPKKSQNEKYRLKYLRLRKAAKATVFENAAICDEIARLEEKFLKAK
EERRYLLKKLLQLQALTEGEVQAAAPSHSSSLPLTYGVASSVGTIQGAGPISGPSTGAEEPFGKKTKKEK
KEKGKENNKLEVLKKTCKKKKMAGGARKLVQPIALDPSGRPVFPIGLGGLTVYSLGEIITDRPGFHDESA
IYPVGYCSTRIYASMKCPDQKCLYTCQIKDGGVQPQFEIVPEDDPQNAIVSSSADACHAELLRTISTTMG
KLMPNLLPAGADFFGFSHPAIHNLIQSCPGARKCINYQWVKFDVCKPGDGQLPEGLPENDAAMSFEAFQR
QIFDEDQNDPLLPGSLDLPELQPAAFVSSYQPMYLTHEPLVDTHLQHLKSPSQGSPIQSSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

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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_032811.3

RefSeq ORF: 1236 bp

Locus ID: 84897

UniProt ID: Q3YBR2

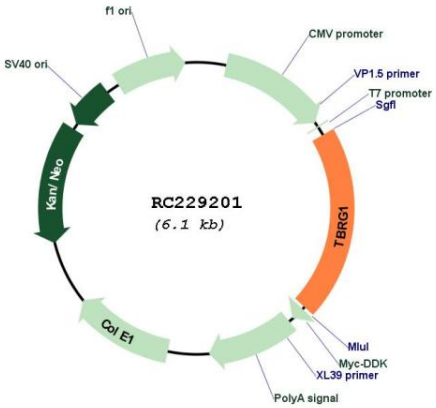
Cytogenetics: 11q24.2

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

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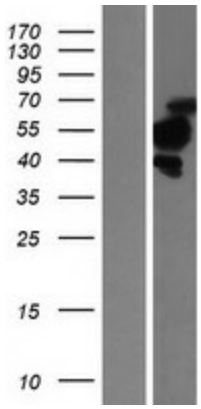
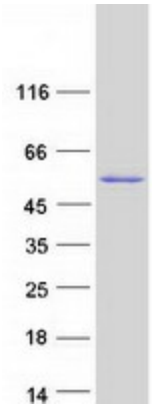


Western blot validation of overexpression lysate (Cat# [LY432225]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229201 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



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]).

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