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# Product datasheet for RG207651

## RADX (NM_018015) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | RADX (NM_018015) Human Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | RADX |
| **Synonyms:** | CXorf57 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**ORF Nucleotide Sequence:**

>RG207651 representing NM_018015
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTGGTGAGTCAGGACAGCCTGAGGCTGGTCCCTCACATGCAGGGCTAGATTGGCCGAACCCTGAGA
GGAATCGGGCTGGGGTCCCGGGAGGGGTGATCCGAAGAGCTGGTTCCCAAGGGCCCAGGTCCTGGATCCA
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GCTATGATGTGACGATCTCAGATGGGGTGTACCAGGAGAAGTGCTACCTGGACCCCAGCTTGAACTCTCT
CGTATATCAAAATATTCTTAAAGTTGGCATTCAAATGAGAATTTCCAGGGTCTCATGTCTTTACAATGAG
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CACAACTTTAGCGATACCAAAATAATTTCCCTTTCTCATCTTGAAATGACCTGGACTAACAGAAGAAATT
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AGACATTTTCCAAGTATAGTAGTTCTATTAAAGTTGAGTCGCTCTTGACAGCTATAAGTGAAGTCAGGAA
GGAGATTGAAGACTTGCAGTATAGGGAACAAAAGCGCATTGCAATTCAGGGGATAATTACTGCTATAAAG
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CATATCCACAGGACACAACTGGAAATGACCGATTGCCAGGTCCAAGAGCGGTTGCAGGTGATATTATAAA
AGCAGCAACTGAACTGGATAGAGTGCATATCGTCGGTATCTTGGATATCTGTAATTTGGGTAATAATAAA
GTGGAAGTCTATTTGCACAAGATTTATAGTCCAGAGAATACTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

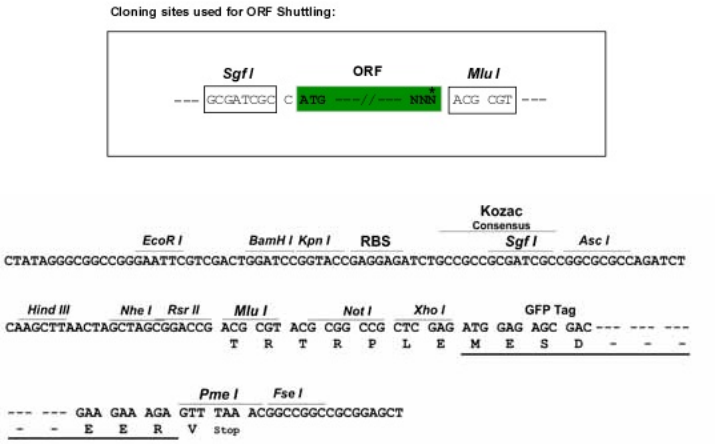
>RG207651 representing NM_018015
Red=Cloning site Green=Tags(s)

MSGESGQPEAGPSHAGLDWPNPERNRAGVPGGVIRRAGSQGPRSWIQKVLEQIMDSPRQCVTPSEVVPVT
VLAVQRYLLEDEPRDTVPKPPLYCYDVTISDGVYQEKCYLDPSLNSLVYQNILKVGIQMRISRVSCLYNE
KRIGQGILCIDNVHCGETSDSISLETPFRNRAHQEKPERPLRGGKSHYLALWNNEDPYGDIWLTDKQPEE
HNFSDTKIISLSHLEMTWTNRRNFPALLVRILHKSKLRYYGKPDKKMIEPYQTFLEVADSSGTVSVIMWN
ALCPEWYKSLRVGLVLLLQDYSVKKSYPFRIQPVPVDPQIKLISTMEICLNLRDPPTNIIIIPEKQVKPE
WRLPKLNHRFTTRSELDDMPENCICDVIGLLVFVGRVQRSKKKENREDFWSYRWIHIADGTSEQPFIVEL
FSTSQPEIFENIYPMAYFVCTQLKVVRNDNQVPKLLYLTTTNESGVFITGHRGQPYTYDAKVKNFIQWIR
TKSDSGEQKNMVIGGYYPYPPVPETFSKYSSSIKVESLLTAISEVRKEIEDLQYREQKRIAIQGIITAIK
YIPHSSATESASASETLRNANRPSTSQAARVEMQERNGKRHQDDEPVNSQYFQTTSTNLSLSNKIRILQG
PHANPVAVPQPGASVQTKGIKPGMPSIFNRRANINANLQGKARKTISDRWESQLWREKKFGLIDHLHYSR
VYPESIPRKFMFEHRKFLSDQYNSQPAKYVPPEGRPPKLDDFKSARSLGHFEVTILGLNHEIAIDVAFLP
MYCPEDIRTSQIDTLLTSMNYSCAYPQDTTGNDRLPGPRAVAGDIIKAATELDRVHIVGILDICNLGNNK
VEVYLHKIYSPENTS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

Cloning Scheme:




**ACCN:** NM_018015

**ORF Size:** 2565 bp

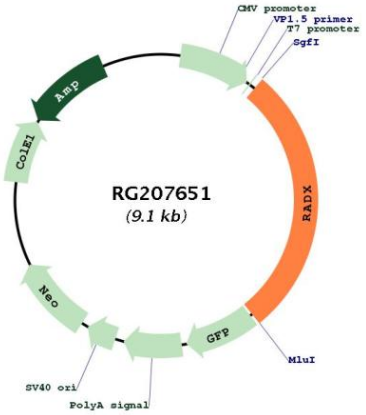
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_018015.4 |
| **RefSeq Size:** | 3861 bp |
| **RefSeq ORF:** | 2568 bp |
| **Locus ID:** | 55086 |
| **UniProt ID:** | Q6NSI4 |
| **Cytogenetics:** | Xq22.3 |
| **Gene Summary:** | Single-stranded DNA-binding protein recruited to replication forks to maintain genome stability (PubMed:28735897). Prevents fork collapse by antagonizing the accumulation of RAD51 at forks to ensure the proper balance of fork remodeling and protection without interfering with the capacity of cells to complete homologous recombination of double-strand breaks (PubMed:28735897).[UniProtKB/Swiss-Prot Function] |

## Product images:




Circular map for RG207651