

Product datasheet for **RG234760**

RB associated KRAB repressor (RBAK) (NM_001204456) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RB associated KRAB repressor (RBAK) (NM_001204456) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RB associated KRAB repressor
Synonyms:	ZNF769
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG234760 representing NM_001204456
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACACATTGCAGGGGCCAGTGTCAATCAAAGATGTGGCTGTGGATTTACCCAGGAGGAGTGGCAGC
 AGCTGGACCCCTGATGAGAAGATAACTTACAGGGATGTGATGTTGGAGAAGTATAGCCATCTAGTTTCTGT
 GGGATATGATACCAACCAAGCCAAACGTCATCATTAAGTTGGAGCAGGGAGAGGAGCCGTGGATAATGGGA
 GGTGAATTTCCATGTCAACATAGTCCAGAAGCCTGGAGAGTTGATGACCTGATAGAGAGAATCCAAGAAA
 ACGAAGACAAACATTCAAGGCAAGCTGCTTGTATCAATAGCAAAACCTGACTGAAGAGAAAAGAGAATAC
 ATTTAGTCAAATTTACATGGAACAAGCCTTGTCTTCAAGCATAATAGCTCATAATTGTGTCTCATGT
 GGAAAGAATTTAGAATCTATTTTCGCAATTAATTAGTAGTGATGGAAGCTATGCTAGGACAAAACCTGATG
 AGTGTAATGAATGTGGGAAAACATATCATGGAGAGAAAATGTGTGAATTTAATCAAAATGGGGATACCTA
 TTCTCACAATGAAGAAAATATTCTTCAGAAAATTAGTATTTTGGAGAAACCCTTTGAATATAATGAATGC
 ATGGAAGCCTTAGACAATGAGGCTGTTTTATTGCTCATAAGAGAGCTTACATAGGGGAGAAGCCCTATG
 AGTGGAATGATTCTGGACCAGACTTCATACAGATGTCAAATTTAATGCATATCAGAGATCACAAATGGA
 AATGAAGCCCTTTGAATGCAGTGAATGTGGAAAATCCTTCTGTAAAAAGTCAAAATTCATCATCCACCAG
 AGGGCTCACACAGGAGAGAAAACCTTATGAATGTAATGTATGTGGGAAATCCTTCAGCCAAAAGGGAAACCC
 TCACTGTACATCGGAGATCACACTTAGAGGAGAAGCCCTATAAATGTAATGAATGTGGGAAAACCTTTTG
 TCAGAAGTTACACCTCACTCAACACCTAAGAACTATTCAGGAGAGAAAACCTACGAATGTAGCGAATGT
 GGGAAAACCTTCTGCCAAAAGACACATCTACCCCTGCACCAGAGGAATCATTAGGAGAGAGGGCCCTATC
 CATGTAACGAATGTGGGAAATCCTTCTCCCGCAAGTCTGCTCTCAGTGACCATCAGAGAATCACACGGG
 AGAGAAGCTTTATAAATGTAATGAATGTGGGAAATCCTACTACCGAAAAGTCTACTCTGATTACACATCAG
 AGAACACACACGGGAGAGAAGCCCTATCAGTGTAGCGAGTGTGGGAAATCCTTTTCTCGGGTGTCATACC
 TCACTATACATTATAGAAGTCATTTAGAAGAGAAAACCTATGAATGTAATGAATGTGGGAAAACCTTCAA
 TTAAATTCAGCCTTCATTAGACATCGGAAAGTACACACAGAAGAGAAATCCCATGAATGTAGTGAATGT
 GGAAAGTTCTCTCAGTTGTATCTCACCGACCATCATACAGCTCATTTAGAAGAGAAAACCTATGAATGTA
 ATGAATGTGGGAAAACCTTCTTGTAAATTCAGCCTTCGATGGGCACCAGCCACTTCCAAAAGGGGAGAA
 ATCCTATGAATGTAATGTATGTGGAAAGTTATTCAATGAGTTGTCATACTATACTGAACATTATAGAAGT
 CATTGAGAAGAGAAAACCTTATGGATGTAGCGAATGTGGGAAAACCTTTCCATAATTCATCCCTCTTCA
 GACATCAAAGAGTACACACAGGCGAGAAAACCTATGAATGTTACGAATGTGGGAAATTCCTCTCTCAGAA
 ATCATATCTCACTATACATCATCGAATTCATTAGGAGAGAAAACCTATGAATGTAGTAAATGTGGAAAA
 GTCTTCTCTCGGATGTCAAACCTCACTGTCCACTACAGAAGCCATTAGGAGAGAAAACCTATGAATGTA
 ATGAATGTGGGAAAGTCTTTTCTCAGAAGTCATACCTCACTGTACACTATAGAATCATTAGGAGAGAA
 ACCCTATGAATGTAACGAGTGTGGGAAAAAATCCACCACAGATCAGCCTTCAATAGCCATCAGAGAATT
 CATAGAAGAGGAAATATGAACGTACTTGATGTGGAAAATCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG234760 representing NM_001204456
 Red=Cloning site Green=Tags(s)

MNTLQGPVSFKDVAVDFTQEEWQQLDPDEKITYRDVMLENYSHLVSVGYDTTKPNVVIKLEQGEEPWIMG
 GEFFPCQHSPEAWRVDDLIERIQENEDKHSRQAACINSKLTTEEKENTFSQIYMETSLVPSSIIAHNCVSC
 GKNLESISQLISSDGSYARTKPDECNECGKTYHGEKMCEFNQNGDTYSHNEENILQKISILEKPFYNEC
 MEALDNEAVFIAHKRAYIGEKPYEWNDSGPDFIQMSNFNAYQRSQMEMKPFECSECGKSFCKKSKFIIHQ
 RAHTGEKPYECNVCCKSFSQKGLTVHRRSHLEEKPYKCNECGKTCQKLHLTQHLRTHSGEKPYECSEC
 GKTCQKTHLTLHQRNHSGERPYPCNECGKFSRKSALSDHQRTHTGEKLYKCNECGKSYRKSTLITHQ
 RTHTGEKPYQCSECGKFFSRVSYLTIHYRSHLEEKPYECNECGKTFNLNSAFIRHRKVHTEEKSHCSEC
 GKFSQLYLTDHHTAHLEEKPYECNECGKTFVNSAFDGHQPLPKGEKSYECNVCCKLFNELSYYTEHYRS
 HSEKPYGCSECGKTFSHNSSLFRHQRVHTGEKPYECYECGKFFSQKSYLTIHHRHSGEKPYECSKCGK
 VFSRMSNLTVHYRSHSGEKPYECNECGKVFSQKSYLTVHYRTHSGEKPYECNECGKFFHRSFAFNHQRI
 HRRGNMNVLDVENL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001204456

ORF Size: 2142 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_001204456.2](#)

RefSeq Size: 6356 bp

RefSeq ORF: 2145 bp

Locus ID: 57786

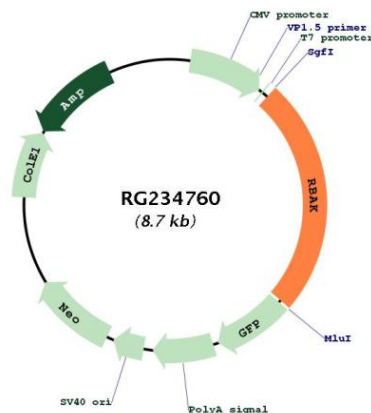
UniProt ID: [Q9NYW8](#)

Cytogenetics: 7p22.1

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene encodes a nuclear protein which interacts with the tumor suppressor retinoblastoma 1. The two interacting proteins are thought to act as a transcriptional repressor for promoters which are activated by the E2F1 transcription factor. This protein contains a Kruppel-associated box (KRAB), which is a transcriptional repressor motif. Read-through transcripts that include exons from the downstream gene LOC389458 are expressed from this locus. [provided by RefSeq, Mar 2011]

Product images:



Circular map for RG234760