

Product datasheet for **RG210965**

ERAS (NM_181532) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERAS (NM_181532) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ERAS
Synonyms:	HRAS2; HRASP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210965 representing NM_181532 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTGCCAACAAGCCTGGCACCTTCGACCTGGGCCTGGCCACATGGAGCCCTTCCTTCCAGGGG
AAACCCACCGGGCTCAGGCACGCCGAGGGATGTTGGCAGGCAGCTGCCTGAGTACAAGGCTGTGGTGGT
GGGCGCCAGTGGCGTGGGCAAGAGTGCCTGACCATCCAGCTGAACCACCACTGCTTCGTGGAGGACCAC
GACCCACCATCCAGGATTCCTACTGGAAGGAGTTGACCCTGGACAGTGGGACTGCATTCTGAATGTGC
TGGACACAGCAGGGCAGGCCATCCATAGGGCCCTGCGTGACCAGTGCCTGGCTGTCTGTGATGGTGTGCT
GGGCGTCTTCGCTCTCGATGACCCCTCGTCTCTGATCCAGCTGCAGCAGATATGGGCCACCTGGGGCCCT
CACCCCGCCAGCCCTTGTCTCGTGGGCAACAAGTGTGACCTTGTGACCACTGCTGGAGATGCTCATG
CCGCTGCTGCAGCCCTCGCACACAGCTGGGGGGCCCACTTCGTGGAGACCTCGGCCAAAACACGGCAAGG
CGTGGAGGAGGCCTTTCCCTGCTGGTCCATGAGATCCAGAGGTCCAGGAGGCCATGGCGAAGGAGCCC
ATGGCAAGGTCTGTAGGGAGAAGACCCGGCACCAGAAGGCCACCTGCCACTGTGGCTGCTCTGTGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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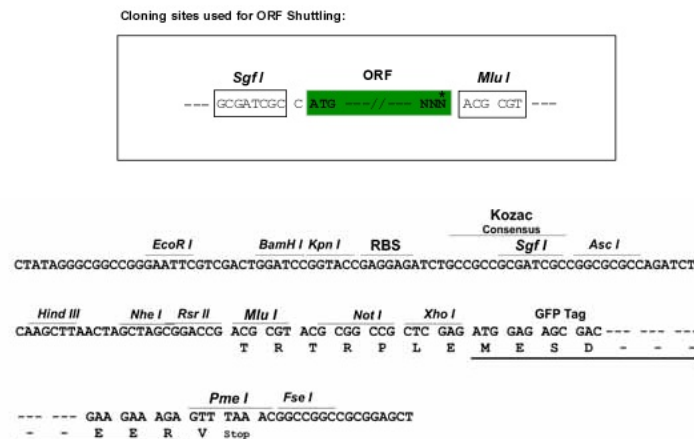
Protein Sequence: >RG210965 representing NM_181532
 Red=Cloning site Green=Tags(s)

MELPTKPGTFDLGLATWSPSFQGETHRAQARRRDVGRQLPEYKAVVVGASGVGKSALTIQLNHQCFVEDH
 DPTIQDSYWKELTLDSGDCILNVLDTAGQAIHRALRDQCLAVCDGVLGVFALDDPSSLIQLQQIWATWGP
 HPAQPLVLVGNKCDLVTAGDAHAAAAALAHSWGAFHVETSAKTRQGVVEAFSLLVHEIQRVQEAMAKEP
 MARSCREKTRHQKATCHCGCSVA

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181532

ORF Size: 699 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_181532.3](#)

RefSeq Size: 1266 bp

RefSeq ORF: 702 bp

Locus ID: 3266

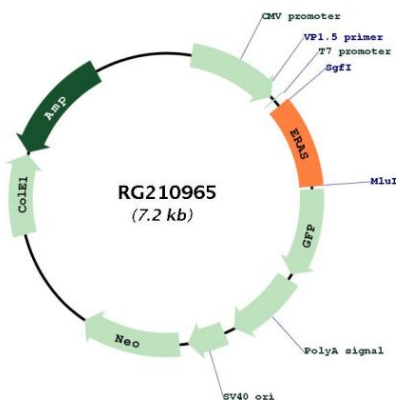
UniProt ID: [Q7Z444](#)

Cytogenetics: Xp11.23

Protein Families: Druggable Genome

Gene Summary: This gene encodes a constitutively active member of the small GTPase Ras protein family. The encoded protein activates the phosphatidylinositol 3-kinase signal transduction pathway in undifferentiated stem cells, but is not expressed in differentiated cells. This gene may be involved in cancer and chemotherapy resistance. [provided by RefSeq, Dec 2012]

Product images:



Circular map for RG210965