

Product datasheet for SC101031

GTP binding protein era homolog (ERAL1) (NM_005702) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GTP binding protein era homolog (ERAL1) (NM_005702) Human Untagged Clone
Tag:	Tag Free
Symbol:	GTP binding protein era homolog
Synonyms:	CEGA; ERA; ERA-W; ERAL1A; ERAL1B; H-ERA; HERA-A; HERA-B; PRLTS6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC101031 sequence for NM_005702 edited (data generated by NextGen Sequencing)

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ATGGCTGCCCCCAGCTGGCGCGGGGCTAGGCTTGTTCATCGGTGTTAAGAGTCTGGCAG
GTGGGCCCTCATGTGCGAGGGAGCGGGTATCCCTTTTCTCACTCTTAGGCTTCCAA
CGGAGGTGCGTGTCTGCGTGCAGGGTCCGCTTTCTCTGGTCCCGCTTGGCCTCGGCT
TCTCGCAGTAATGGCCAGGGCTCTGCCCTGGACCACTTCTCGGATTCTCTCAGCCCGAC
AGTTCCGTGACTCCTTGCCTCCCGCGGTGTCCATGAACAGAGATGAGCAGGATGTCTC
TTGGTCCATCACCTGATATGCCTGAGAATTCCCGGGTCTACGAGTGGTCTCTCGGGA
GCCCCGAATGCAGGAAGTCAACTCTCCAACCAGCTACTGGGCCGAAAGGTGTTCCCT
GTTTCCAGGAAGTGCATACTACTCGTCCCAAGCTCTGGGGTTCATCACAGAGAAGGAG
ACCCAGGTGATTCTACTTGACACACCTGGCATTATCAGTCTGGTAAACAGAAGAGGCAT
CACCTGGAGCTCTTTTGTGGAAGATCCATGGAAGAGCATGGAATCTGCTGATCTTGT
GTGGTTCTTGTGGATGTCTCAGACAAGTGGACACGGAACCAAGCTCAGCCCCAGTTGCTC
AGGTGCTTGACCAAGTACTCCCAGATCCCTAGTGTCTGGTCAATGAACAAGGTAGATTGT
TTGAAGCAGAAGTCAAGTGTGAGGAGCTCACGGCAGCCCTCACTGAAGGTGTGGTCAAT
GGCAAAAAGTCAAGATGAGGACAGGCTTCCACTCACACCCTGGCACCATTGCCCCAGC
CCAGCAGTTAAGGACCCAAACACACAATCTGTGGGAAATCCTCAGAGGATTGGCTGGCC
CAATACCTTCTGACACAGGCCAGCCAGGCGCTGGGAGTACCACAGTGCAGTCCCTCACT
AGCCAGACACCAGAAGAGATCTGTGCCAATTAATCCGAGAGAAGCTCCTAGAACACCTG
CCCCAGGAGGTGCCTTACAATGTACAGCAGAAGACAGCAGTGTGGGAGGAAGGACCAAGT
GGGAGGCTGGTTATCCAACAGAAGCTTCTGGTCCCAAAGAATCTTATGTGAAACTCCTG
ATTGGTCCGAAGGGCCACGTGATCTCCAGATAGCACAGGAGGCAGGCCATGACCTCATG
GACATCTCTCTGCGATGTTGACATCCGCCTCTCTGTGAAGCTCCTCAAGTGA

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Clone variation with respect to NM_005702.2
945 c=>t



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005702 unedited NCGTTCACATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCGGCTGTA ATGGCTGCCCCAGCTGGCGCGGGGCTAGGCTTGTTCATCGGTGTTAAGAGTCTGGCAG GTGGGCCCTCATGTGCGGAGGGAGCGGGTGATCCCTTTTCTCACTCTTAGGCTTCAA CGGAGGTGCGTGTCTGCGTCCGCGGGTCCGCTTCTCTGGTCCCGCTTGGCCTCGGCT TCTCGCAGTAATGGCCAGGGCTCTGCCCTGGACCACTTCTCGGATTCTCTCAGCCCGAC AGTTCGGTGACTCCTTGGCTCCCGCGGTGCCATGAACAGAGATGAGCAGGATGTCCTC TTGGTCCATCACCTGATATGCCTGAGAATCCCGGGTCTACGAGTGGTCTCCTGGA GCCCGAATGCAGGGAAGTCAACACTCTCCAACCAGCTACTGGGCCGAAAGGTGTTCCCT GTTCCAGGAAGGTGCATACTACTCGCTGCCAAGCTCTGGGGTCCATCACAGAGAAGGAG ACCCAGGTGATTCTACTTGACACACCTGGCATTATCAGTCCTGGTAAACAGAAGAGGCAT CACCTGGAGCTCTTTTGTGGAAGATCCATGGAAGAGCATGGAATCTGCTGATCTTGTT GTGGTCTTGATGTCTCAGAACAGTGGACACGGAACCAGCTCAGCCCCAGTTGCTC AGGTGCTTGACCAAGTACTCCAGATCCCTAGTGTCTGGTCCATGAACAAGGTAGATTGT TTTGAACAGAAGTCAGTTCTCTGGAGCTCACGGCAGCCCTCACTGAAAGTGTGGTCAAT GGCAAAAGCTCAAGATGAAGCAGGCCTTCACTCACACCCTGGCACCCATGGCCAGCCC ACCGTTAAGACCCCAACCCAATCTGGG
Restriction Sites:	NotI-NotI
ACCN:	NM_005702
Insert Size:	2000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_005702.2 , NP_005693.1
RefSeq Size:	1856 bp
RefSeq ORF:	1314 bp
Locus ID:	26284
UniProt ID:	O75616
Cytogenetics:	17q11.2

Gene Summary:

The protein encoded by this gene is a GTPase that localizes to the mitochondrion. The encoded protein binds to the 3' terminal stem loop of 12S mitochondrial rRNA and is required for proper assembly of the 28S small mitochondrial ribosomal subunit. Deletion of this gene has been shown to cause mitochondrial dysfunction, growth retardation, and apoptosis. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2015]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).