

Product datasheet for **RC232994**

ENC1 (NM_001256574) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENC1 (NM_001256574) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ENC1
Synonyms:	CCL28; ENC-1; KLHL35; KLHL37; NRPB; PIG10; TP53I10
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC232994 representing NM_001256574
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGTCAGTCAGTGTGCATGAGAACCGAAGTCCAGGGCCAGCAGCGGCTCCATTAACATCTATCTGTTTC
 ACAAGTCTCCTACGCTGACAGCGTCTCACTCACCTGAATCTTTTACGCCAGCAGCGTCTTCACTGA
 CGTCTTCTCCATGCCGAAATAGGACCTTCCCTTGCCACCGGGCAGTGTGGCTGCATGCAGTCGCTAC
 TTTGAGGCCATGTTCAAGTGGTGGCTGAAAGAGAGCCAGGACAGTGAAGTCAACTTTGACAATCCATCC
 ACCCAGAAGTCTTGGAGCTGCTGCTTACTGCTACTCCTCCCGGTCATCATCAATGAAGAAAATGC
 AGAATCGCTCCTGGAAGCTGGTACATGCTGGAGTTTCAAGACATCCGGGATGCATGTGCAGAGTTCCTG
 GAAAAGAAGCTGCATCCCACTGCCTGGGCATGCTGCTGTCTGATGCACACCAGTGCACCAAGC
 TGTACGAATCTTGGAGAATGTCTCAGCAACTTCCAACCATCAGGAAGAATGAAGATTTCTCCA
 GCTGCCAGGACATGGTAGTCAACTCTGTCCAGTGAAGAGCTGGAGACAGAGGATGAAAGGCTTGTG
 TACGAGTCTGCAATTAAGTGGATCAGCTATGACCTGAAGAAGCGCTATTGCTACCTCCAGAACTGTTGC
 AGACAGTAAGGCTGGCACTTCTGCCAGCCATCTATCTCATGGAGAATGTGGCCATGGAGGAACTCATCAC
 CAAGCAGAGAAAAGAGTAAGGAAATTGTGGAAGAGGCCATCAGGTGCAAACTGAAAATCCTGCAGAATGAC
 GGTGTGGTAACAGCCTCTGTGCCGACCTCGGAAAATGGCCATGCCCTCTTCTTCTGGGAGGACAGA
 CTTTATGTGTGACAAGTTGATCTGGTAGACCAGAAGGCCAAAGAAATCATTCCCAAGGCTGACATTCC
 CAGCCCAAGAAAAGAGTTTAGTGCATGTGCGATTGGCTGCAAAGTGTACATTACTGGGGGGCGGGGTCT
 GAAAATGGGTCTCAAAGATGTCTGGGTTTATGATACCCTGCACGAGGAGTGGTCCAAGGCTGCCCCCA
 TGCTGGTGGCCAGGTTTGGCCATGGCTGTCTGACTGAAGTGAAGCAGTGCCTGTATGTGGTTGGGGGACAC
 GGCCGCAACTGGCTGCCTCCCGGCTCCCTCAGTCTCTCTAAAGCAGGTAGAACATTATGACCCACA
 ATCAACAATGGACATGGTGGCCCACTCCGAGAAGGCGTTAGCAACGCCGAGTGTGAGTGCACAAAC
 TTAAGTTATTTGCTTTCGGAGGTACCAGTGTGAGTGCATGACAAGTCCCAAGTTTCAAGTGTACGATCA
 GTGTGAAAACAGGTGGACTGTACCGCCACCTGTCCAGCCCTGGCGTTACACAGCAGCAGCTGTGCTG
 GGAACACAGATTTTTATTATGGGGGTGATACAGAATTCTCTGCCTGCTGCTTATAAATCAACAGT
 AGACTTACCAGTGGACCAAGGTGGGAGATGTGACAGCAAAGCGCATGAGCTGCCATGCTGTGGCCTCTGG
 AAACAACCTACGTGGTTGGAGGATACTTTGGCATTACGCGATGCAAGACTTTGGACTGCTACGATCCA
 ACATTAGAGTGTGGAACAGCATCACCCTGTCCCGTACTCGCTGATTCTACTGCATTTGTCAGCACCT
 GGAACATCTGCCTTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232994 representing NM_001256574
 Red=Cloning site Green=Tags(s)

MSVSVHENRKSRASSGSINIYLFHKSSYADSVLTHLNLLRQQLFTDVLHLAGNRTFPCHRAVLAACSRY
 FEAMFSGGLKESQDSEVNFNSIHPEVLELLLDYAYSSRVIINEENAESLLEAGDMLFQDIRDACAFL
 EKNLHPTNCLGMLLLSDAHQCTKLYELSWRMCLSNFQIRKNEFLQLPQDMVVQLLSSELETERLV
 YESAINWISYDLKKRYCYLPELLQTVRLALLPAIYLMENVAMEELITKQRKSKEIVEEAIKCKLILQND
 GVVTSLCARPKTGHAFLLGGQTFMCDKLYLVDQKAKEIIPKADIPSPRKEFSACAIKCKVYITGGRS
 ENGVSKDVMVYDTHHEEWSKAAPMLVARFGHGSSELKHCLYVVGHTAATGCLPASPSVSLKQVEHYDPT
 INKWTMVAPLREGVSNAAVVSARKLAFGGTSSVSHDKLPKVQCYDQCENRWTVPATCPQPWRYTAAAVL
 GNQIFIMGGDTEFSACSAYKFNSETYQWTKVGDVTAKRMSCHAVASGNKLYVVGYYFGIQRCKTLDCYDP
 TLDVWNSITTPYSLIPTAFVSTWKHLPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

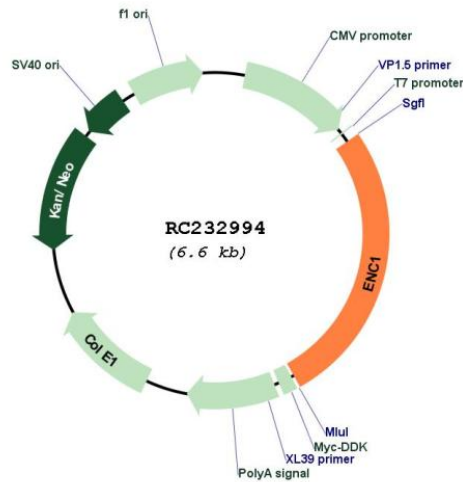
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001256574

ORF Size: 1767 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:	<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_001256574.1 , NP_001243503.1
RefSeq Size:	5657 bp
RefSeq ORF:	1770 bp
Locus ID:	8507
UniProt ID:	O14682
Cytogenetics:	5q13.3
Protein Families:	Druggable Genome
MW:	66.6 kDa
Gene Summary:	This gene encodes a member of the kelch-related family of actin-binding proteins. The encoded protein plays a role in the oxidative stress response as a regulator of the transcription factor Nrf2, and expression of this gene may play a role in malignant transformation. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Feb 2012]