

Product datasheet for **RG201842**

ENC1 (NM_003633) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENC1 (NM_003633) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ENC1
Synonyms:	CCL28; ENC-1; KLHL35; KLHL37; NRPB; PIG10; TP53I10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG201842 representing NM_003633
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCAGTCAGTGTGCATGAGAACCGAAGTCCAGGGCCAGCAGCGGCTCCATTAACATCTATCTGTTTC
 ACAAGTCCTCCTACGCTGACAGCGTCTCACTCACCTGAATCTTTTACGCCAGCAGCGTCTTCACTGA
 CGTCTTCTCCATGCCGAAATAGGACCTTCCCTTGCCACCGGGCAGTGTGGCTGCATGCAGTCGCTAC
 TTTGAGGCCATGTTCAAGTGGTGGCTGAAAGAGAGCCAGGACAGTGAAGTCAACTTTGACAAATCCATCC
 ACCCAGAAGTCTTGGAGCTGCTGCTGACTATGCGTACTCTCCCGGTTCATCAATGAAGAAAATGC
 AGAATCGCTCCTGGAAGCTGGTACATGCTGGAGTTTCAAGACATCCGGGATGCATGTGCAGAGTTCCTG
 GAAAAGAAGCTGCATCCCACCAACTGCCTGGGCATGCTGCTGTCTGATGCACACCAGTGCACCAAGC
 TGTACGAATATCTTGGAGAATGTCTCAGCAACTTCCAACCATCAGGAAGAATGAAGATTTCTCCA
 GCTGCCCAAGGACATGGTAGTCAACTCTGTCCAGTGAAGAGCTGGAGACAGAGGATGAAAGGCTTGTG
 TACGAGTCTGCAATTAAGTGGATCAGCTATGACCTGAAGAAGCGCTATTGCTACCTCCAGAACTGTTGC
 AGACAGTAAGGCTGGCACTTCTGCCAGCCATCTATCTCATGGAGAATGTGGCCATGGAGGAACTCATCAC
 CAAGCAGAGAAAAGAGTAAGGAAATTGTGGAAGAGGCCATCAGGTGCAAACTGAAAATCCTGCAGAATGAC
 GGTGTGGTAACAGCCTCTGTGCCGACCTCGGAAAATGGCCATGCCCTCTTCTTCTGGGAGGACAGA
 CTTTATGTGTGACAAGTTGATCTGGTAGACCAGAAGGCCAAAGAAATCATTCCAAGGCTGACATTCC
 CAGCCCAAGAAAAGAGTTTAGTGCATGTGCGATTGGCTGCAAAGTGTACATTACTGGGGGGCGGGGTCT
 GAAAATGGGGTCTCAAAGATGTCTGGGTTTATGATACCCTGCACGAGGAGTGGTCCAAGGCTGCCCCCA
 TGCTGGTGGCCAGGTTTGGCCATGGCTCTGCTGAACTGAAGCACTGCCTGTATGTGGTTGGGGGCACAC
 GGCCGCAACTGGCTGCCTCCCGGCTCCCTCAGTCTCTCTAAAGCAGGTAGAACATTATGACCCACACA
 ATCAACAATGGACCATGGTGGCCCACTCCGAGAAGGCGTTAGCAACGCCGAGTGTGAGTGCACCAAC
 TTAAGTTATTTGCTTTCCGAGGTACCAGTGTGAGTGCATGACAAGCTCCCAAAAGTTCAGTGTACGATCA
 GTGTGAAAACAGGTGGACTGTACCGCCACCTGTCCCAAGCCTGGCGTTACACAGCAGCAGCTGTGCTG
 GGGAACAGATTTTTATTATGGGGGTGATACAGAATTCTCTGCCTGCTGCTTATAAATCAACAGTG
 AGACTTACCAGTGGACCAAGGTGGGAGATGTGACAGCAAAGCGCATGAGCTGCCATGCTGTGGCCTCTGG
 AAACAACCTACGTGGTTGGAGGATACTTTGGCATTACGCGATGCAAGACTTTGGACTGCTACGATCCA
 ACATTAGAGTGTGGAACAGCATCACCCTGTCCCGTACTCGCTGATTCTACTGATTTGTCAGCACCT
 GAAACATCTGCCTTCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG201842 representing NM_003633
 Red=Cloning site Green=Tags(s)

MSVSVHENRKSASSGSINIYLFHKSSYADSVLTHLNLLRQQLFTDVLHAGNRTFPCHRAVLAACSRY
 FEAMFSGGLKESQDSEVNFNSIHPEVLELLLDYAYSSRVIINEENAESLLEAGDMLEFQDIRDACAFL
 EKNLHPTNCLGMLLLSDAHQCTKLYELSWRMCLSNFQIRKNEFLQLPQDMVVQLLSSELETERLTV
 YESAINWISYDLKKRYCYLPELLQTVRLALLPAIYLMENVAMEELITKQRKSKEIVEEAI RCKLKLQND
 GVVTSLCARPRKTGHAFLLGGQTFMCDKLYLVDQKAKEIIPKADIPSPRKEFSACAI GCKVYITGGRGS
 ENGYSKDVVYDYLHEEWSKAAPMLVARFHGHSSELKHCLYVVGHTAATGCLPASPSVSLKQVEHYDPT
 INKWTMVAPLREGVSNAAVVS AKLKLFAFGGTSVSHDKLPKVQC YDQENRWTVPATCPQPWRYTAAAVL
 GNQIFIMGGDTEFSACSA YKFNSETYQWTKVGDVTAKRMSCHAVASGNKLYVVG YFGIQRCKTLDCYDP
 TLDVWNSITTPYSLIPTAFVSTWKHLPS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_003633

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:

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_003633.3](#)

RefSeq Size: 4827 bp

RefSeq ORF: 1770 bp

Locus ID: 8507

UniProt ID: [O14682](#)

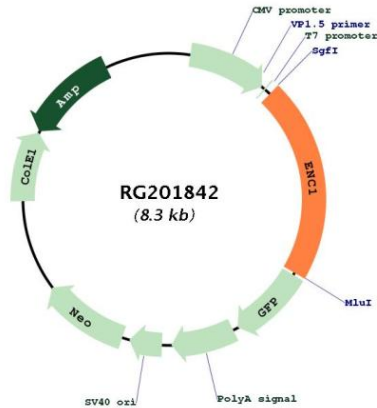
Cytogenetics: 5q13.3

Domains: BTB, Kelch

Protein Families: Druggable Genome

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]

Product images:



Circular map for RG201842