

Product datasheet for **RG226997**

ZBTB42 (NM_001137601) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ZBTB42
Synonyms:	LCCS6; ZNF925
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG226997 representing NM_001137601
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTTCCTGAGCAGCGCGGACGGCTGCTGGGCCGCTGAGACAGCAGCGCGAGCTGGGCTTCTAT
GCGACTGCACCGTGTCTGGTGGGCGACGCGCGCTTCCCGGCCACCGTGCCGTGTGGCCGCTGCAGCGT
CTACTTCCATCTCTTACAGGGACCGGCCGCGGGCAGTCGCGACACGGTGCAGCTCAACGGCGACATC
GTCACGGCGCCCGCTTGGCCGCTACTGGACTTCATGTACGAGGGCCGCTGGACCTGCGCAGCCTGC
CTGTGGAGGACGTCTTGGCAGCGCCAGCTACCTGCACATGTATGACATCGTCAAGGTCTGCAAGGGCAG
GCTCCAGGAGAAGGATCGAAGTCTGGACCCGGGGAACCTGCCCCGTTGGGCGAGAACCTGCTCAGCCACCG
TGCCCCGTTGGCTGTCTGGACCGCGGACCTCTGCCAGCTGCCGAAAGGCCAAGCTCCCCCGTTTGGGG
TCAAGGCTGCCCTCCCTCCTCAGCATCTGGGCTCCTCCCTGCCAGGTCCAGAAGAGTCAGACCAGGC
CCTGGACCTGTCGTTGAAGTCTGGCCCAAGGCAGGAGCGGGTCCACCCACCGTGCCTCCTCAGACACCC
CTCTGCAGCCAGAGGCAGCCAGGGGCCAGCCACTGGTGAAGGACGAACGGGACTCACTGTCCGAACAGG
AGGAGAGCAGCAGCTCTAGGAGCCCCACAGTCCCCGAAGCCACCTCTGTTCTCTGCAGCCAAGGGCT
GGTGGTGGGCTTGACGCCGCTGCCCTCAGCGGAGAGGGCAGCCGGGAGCTGGAGCTTGGTGCAGGGCGA
CTGGCGAGTGAGGACGAGCTGGGGCTGGTGGGCCCTCTGCATCTGCCGTTGTGCAAGCTGTTTC
CCAGCTCCACGTGCTGCAGCTGCACCTCAGTGCCTTCCGTGAGCGAGACAGCACCCGGGCCCGCT
CTCACCCGACGGCGTGGCACCCACCTGCCGCTCTGTGGGAAGACCTTCTCGTGCACATACACACTGAAG
AGGCAGGAGCGGACACTCGGGTGAAGCCCTATACGTGTGTGAGTGTGGAAAAGTTTTCAGTACT
CCCACAACCTGAGCCGGCACACCGTAGTGCACTCGAGAGAAGCCGATGCCTGCCGGTGGTGTGAGCG
CCGTTTCACGCAGTCCGGGACCTCTACCGCCACGTCCGCAAGTTTCACTGTGGCCTCGTCAAGTCCCTT
CTGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG226997 representing NM_001137601

Red=Cloning site Green=Tags(s)

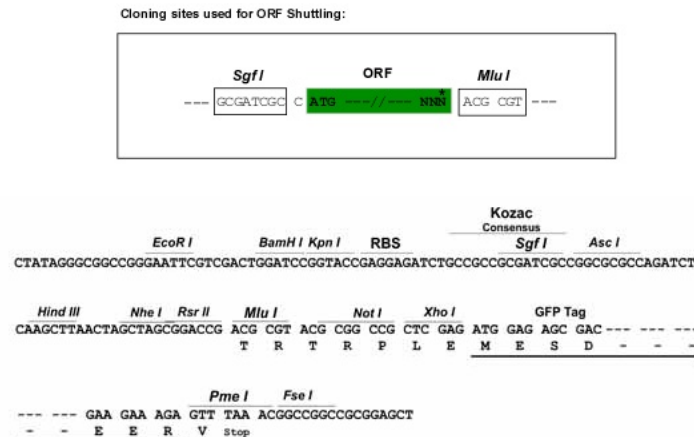
MEFPEHGGRLLGRLRQQRELGFLLCDCTVLVGDAFPAHRAVLAACSVYFHLFYRDRPAGSRDVTVRLNGDI
VTAPAFGRLLDFMYEGRLLDLRSLPVEDVLAASYLHMYDIVKVKGRLEKDRSLDPGNPAPGAEPAPPP
CPWPVWTADLCPAARKAKLPPFGVKAALPPRASGPPPCQVPEESDQALDLCLKSGPRQERVHPPCVLQTP
LCSQRQPGAQPLVKDERDSLSEEESSSRSPHSPPKPPVPAAGLVGLQPLPLSGEGSRELELGAGR
LASEDELPGGGPLCICPLCSKLPSSSHVLQLHLAHFRERDSTRARLSPDGVAPTCPLCGKTFSCCTYTLK
RHERTHSGEKPYTCVQCCKSFQYSHNLSRHTVVHTREKPHACRWCERRFTQSGDLRYHVRKFHCGLVKSL
LV

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001137601

ORF Size:

1266 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:

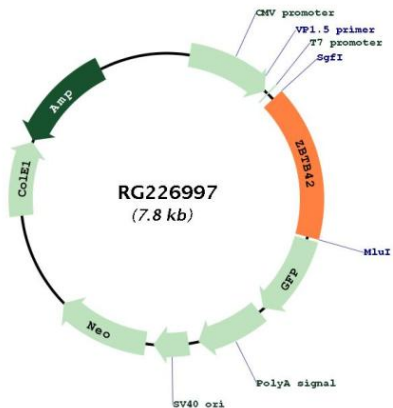
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_001137601.3</u>
RefSeq Size:	3651 bp
RefSeq ORF:	1269 bp
Locus ID:	100128927
UniProt ID:	<u>B2RXF5</u>
Cytogenetics:	14q32.33
Gene Summary:	The protein encoded by this gene is a member of the C2H2 zinc finger protein family. This protein is predicted to have a pox virus and zinc finger (POZ) domain at the N-terminus and four zinc finger domains at the C-terminus. In human and mouse, the protein localizes to the nuclei of skeletal muscle cells. Knockdown of this gene in zebrafish results in abnormal skeletal muscle development and myofibrillar disorganization. A novel homozygous variant of the human gene has been associated with lethal congenital contracture syndrome, an autosomal recessive disorder that results in muscle wasting. [provided by RefSeq, Mar 2015]

Product images:



Circular map for RG226997