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Product datasheet for RG228327

ZNF735 (NM_001159524) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ZNF735
Synonyms:	ZNF735P
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG228327 ORF sequence, codon optimized.
Due to the complexity of NM_001159524, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAAAGAGGCCTGGACCCCCGGGGAGCAGAGAAATGGGCCTGCTGACGTTCCGGGACATCGCAATCG
AATTCAGTTTGGCGGAGTGGCAATGCCTGGATCATGCCCAGCAGAATCTTTATAGAGATGTGATGTTGGA
GAACTATAGGAATCTCTTTAGCCTGGGTATGACTGTGTCAAAACCTGATCTTATTGCTTGTCTCGAACAG
AATAAGGAGCCCCAAAACATCAAAAGAAACGAGATGGCTGCTAAACATCCTGTGACCTGTAGCCACTTCA
ACCAAGATCTGCAGCCAGAGCAGTCCATAAAGGACAGTTTGCAGAAAGTCATACCCCGCACATACGGGAA
GTGTGGGCACGAGAACCTTCAGTTGAAGAAGTGTTGTAAACGGGTGGACGAATGCGAGGTGCATAAGGGG
GGGTACAACGACCTGAATCAATGCCTCTCTAATACGCAGAACAAAATTTTTCAGACCCACAAATGCGTGA
AGGTATTCTCTAAGTTTAGTAATTCTAACCGACACAACGCCAGATACACTGGGAAGAAACATCTCAAATG
TAAGAAATACGGCAAGTCCTTTTGTATGTTCTCCCACCTGAACCAGCACCAGATCATTCATACCAAGGAG
AAAAGTTATAAATGCGAGGAGTGCGGGAAGTCTTTTAATCACTCCTCTTCCGGGACCACCCATAAGCGAA
TTCTGACGGGAGAAAAACCATACCGCTGTGAGGAATGCGGCAAAGCGTTCCGCTGGCCATCAAATCTCAC
CAGGCACAAAAGAATTCACACAGGGGAGAAGCCCTACGCTTGTGAGGAGTGCGGCCAAGCCTTTAGACGC
TCCTCCACCCTGACAAATCATAAGCGGATTCATACAGGAGAGCGCCCGTATAAATGCGAAGAGTGTGGGA
AGGCGTTCTCCGTTTCTTCCGCACTGATCTACCATAAAAGAATTCACACAGGAGAGAAGCCTTACACCTG
TGAGGAATGCGGGAAGGCCTTTAACTGCAGCTCAACCCTGAAGACGCATAAGATAATACATACCGGTGAG
AAACCCTATACCTGTGAAGAGTGCGGTCGAACGTTCAATTGTAGTAGTACTGTAAAGGCACACAAGCGCA
TCCACACGGGCGAAAAGCCCTACAAATGCGAAGAATGCGACAAAGCATTTAAGTGGCATAGCAGTCTGGC
CAAGCATAAAATTATCCACACCGGGGAAAAACCATATAAGTGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG228327 representing NM_001159524
Red=Cloning site Green=Tags(s)

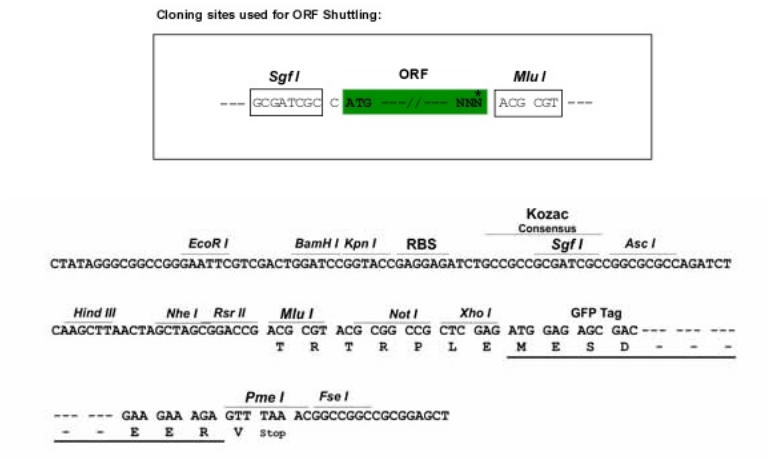
MAKRPGPPGSREMGLLTFRDIAIEFSLAEWQCLDHAQQNLYRDVMLENYRNLFSLGMTVSKPDLIACLEQ
NKEPQNIKRNEMAAKHPVTCSHFNQDLQPEQSIKDSLQKVIPRTYGKCGHENLQLKKCCKRVDECEVHKG
GYNDLNQCLSNTQNKIFQTHKCVKVFSKFSNSNRHNARYTGKKHLKCKKYGKSFCMFSHLNQHQIIHTKE
KSYKCEECGKSFNHSSSGTTHKRILTGEKPYRCEECGKAFRWPSNLTRHKRIHTGEKPYACEECGQAFRR
SSTLTNHKRIHTGERPYKCEECGKAFSVSSALIYHKRIHTGEKPYTCEECGKAFNCSSTLKTHKIIHTGE
KPYTCEECGRTFNCSSTVKAHKRIHTGEKPYKCEECDKAFKWHSSLAKHKIIHTGEKPYKCK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001159524

ORF Size: 1236 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_001159524.1, NP_001152996.1

RefSeq Size: 1239 bp

RefSeq ORF: 1239 bp

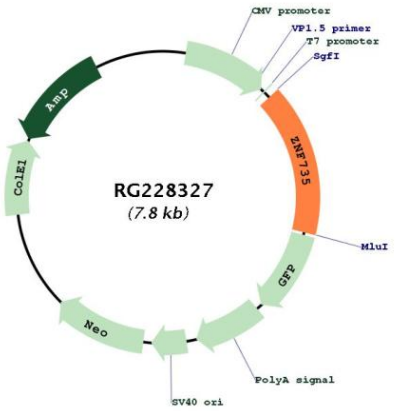
Locus ID: 730291

UniProt ID: P0CB33

Cytogenetics: 7q11.21

Gene Summary: This gene encodes a kruppel-associated box-containing zinc finger protein (KRAB-ZFP). The encoded protein contains an N-terminal kruppel-associated box (KRAB) domain and nine C-terminal C2H2-type zinc finger domains. The KRAB-ZFPs represent the largest family of mammalian transcriptional repressors, which function through the recruitment of the nuclear co-factor KRAB-Associated Protein 1 (KAP1), to engage histone modifiers and induce heterochromatin formation. [provided by RefSeq, Jul 2017]

Product images:



Circular map for RG228327