

Product datasheet for **RG213351**

ZNF486 (NM_052852) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ZNF486
Synonyms:	KRBO2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG213351 ORF sequence, **codon optimized**.
Due to the complexity of NM_052852, 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCCAGGCCCTTGAGGTCCCTCGAGATGGAGAGTTTGCAGTTTCGAGACGTGGCAGTCGAGTTCACTT
TGGAAAGAGTGGCACTGCCTGGACACCGCCAGCAGAACTGTATCGCGACGTGATGCTGGAAAACTACAG
ACACCTGGTCTTCTGGGGATCATCGTGTCAAAACCGACCTCATTACATGCCTGGAGCAGGGCATTAAAG
CCTCTGACGATGAAAAGACACGAAATGATCGCCAAGCCACCCGTTGTGTCTCACATTCGCGCAGGATC
TGTGGCCAGAGCAGAGCATTAAAGTAGCTATCAAAAAGTGATTCTGAGGAAATTTGAAAAATGTGGGCA
TGGGAACCTGCACTTCAAGAAAGGGTGTGAGTCCGTCGACGAGTGAAGCTGCATAAAAGGGGATACAAT
GGTCTGAATCAGTGTCTGACCACTACCCAGTCAAAAATTTCCAGTGCGGAAAAATACGTTAAAGTGTTC
ATCAGTTCTCTAATAGCAAGCGGCACAAGCGCAGGCATACCGAAAAAGAAACCACTCAAGTACATTGAGGG
CGATAAAGCCTTTAACCAGTCTCCACCCACACCACACAAGAAGATCGACACAGGCGAAAAACCATAT
AAATGCGAGGAATGCGGAAAAAGCTTTTAAATAGGTCTCCCATCTGACAACGCACAAGATCACCCACACAA
GGGAGAAGCCCTATAAATGTGAAGAGTGCAGAAAGGTGTTCAAATACTTTAGCTCCTTTACTACACATAA
AAAAATTCACAGTGGTGAAGCCGTACATCTGCGAGGAGTGCAGCAAGGCATTATGTATCCGTACACG
CTGACTACCCATAAGATTATCCACACAGGCGAGCAGCCTTATAAATGTAAGAATGCGACAAAGCATTCA
ATCATCCGGCTACTCTGAGTTCCATAAAAAGATCCACACGGGGGAGAAAGCCTTATACTTGCACAAAGTG
TGGAAAAGCTTTTATAAGCAGCTCCATCCTGTCCAAACACGAGAAGATTACACGGGGGAAAAACCGTAT
AAGTGCAGAGAGTGTGGCAAAGCCTTTACCCGGAGTTCACCTGACCATGCATAAAATCATCCACACCG
GAGAAAAGCCCTACAAATGCGAAGAGTGCAGCAAGGCTTTCACTTGGAGCGCGGGGCTTCACAAACACCG
CAGAAACCATACGGGAGAGAAACCATATAAATGTGAAGAATGCGGGAAGGCCTACACCACAAGCAGCAAT
CTGACTGAGCATAAAACCACTCATACTGGCGAAAAGCCTATAAGTGAAGGAATGTGGGAAAGCGTTCA
ACTGGAGCAGTGACCTTAATAAACACAAGCGGATCCACATAGGGCAAAAGCCGCGAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213351 representing NM_052852
Red=Cloning site Green=Tags(s)

MPGPLRSLEMESLQFRDVAVEFSLEEWHLCLDTAQQLYRDVMLENYRHLVFLGIIVSKPDLITCLEQGIK
PLTMKRHEMIAKPPVVCSHFAQDLWPEQSIKDSYQKVLIRKFEKCGHGNLHFKKGCEVDECKLHKRGYN
GLNQCLTTTQSKIFQCGKYVVFHQFSNSKRHKRRHTEKKPLKYIEGDKAFNQSSHTTHKKIDTGEKPY
KCEECGKAFNRSSHLTTHKIHTREKPYKCEECGKVFKYFSSFTTHKKIHSGEKPYICEECGKAFMYPYT
LTTHKIIHTGEQPYKKECDKAFNHPATLSSHKKIHTGEKPYTCDKCGKAFISSILSKHEKIHTGEKPY
KCEECGKAFTRSSHLTMHKIIHTGEKPYKCEECGKAFTWSAGLHKHRRHTHTGEKPYKCEECGKAYTTSSN
LTEHKTTHTGEKPYKKECGKAFNWSSDLNKHKRIHIGQKPRT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_052852

ORF Size: 1389 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:

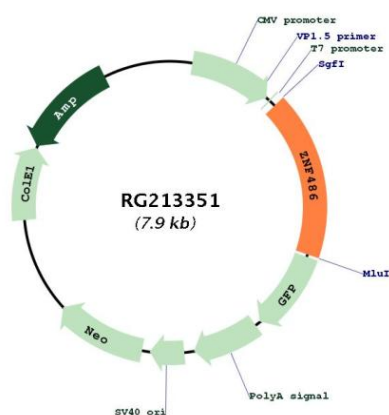
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_052852.3](#), [NP_443084.2](#)

RefSeq Size: 3895 bp

RefSeq ORF:	1392 bp
Locus ID:	90649
UniProt ID:	Q96H40
Cytogenetics:	19p12
Domains:	KRAB
Gene Summary:	May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for RG213351