

Product datasheet for **RG214229**

ZNF570 (NM_144694) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ZNF570
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG214229 ORF sequence, **codon optimized**.
Due to the complexity of NM_144694, 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**CGGATCGCC**

ATGGCTGTTGGGTTGCTCAAGGCAATGTACCAGGAGTTGGTGACATTCCGGGATGTAGCCGTTGATTTCAGCCAGGAGGAATGGGATTGTCTGGATAGCAGTCAGCGCACTTGATAGTAATGTTATGCTGGAGAATTA
CCGGATCCTGGTGAGCCTTGGGCTTTGCTTCAGCAAACCATCTGTCATCCTGCTTCTCGAACAGGGAAAA
GCCCCCTGGATGGTAAAGCGGGAACCTACCAAAGGCCTGTGCAGTGGCTGGGAGCCTATCTGTGAACAG
AAGAGCTCACTCCGAAACAGGATTTCTACGAGGAGCACCAATCTCAGAAATCATCGAGACTCTCACCTC
CTACAACCTGGAATACAGCTCTCTGAGGGAGGAATGGAAGTGCGAAGGCTATTTTGAGCGGCAGCCTGGT
AATCAAAGGCATGTTTCAAGGAAGAAATTATAACACACGAGGAACCACTGTTTCGATGAGAGGGAGCAGG
AATATAAGTCTTGGGGCAGTTTTCATCAAAACCACTCCTCTGCACCCAGAAGATCATCCCAAAGGAAGA
AAAGGTCCACAAACAGCAGCTCAGAAGCGGAGCTTCAAGAAAACTGATGGCTATTAAACCTAAGAGT
GTCTGCGCGGAGAAAGATTGCTTAAATGCAACGATTGTGAGAAAGTCTTTAGTCAATCCAGTTTATTGA
CACTCCACCAAAGAATCCATACTGGTGAAAAGCCATATAAGTGCATCGAGTGCAGAAAGGCTTTTAGCCA
GAGGAGCAACCTGGTCCAACATCAACGGATCCACACAGGGGAGAAGCCTTACGAATGTAAGGAGTGCAGA
AAGGCATTCTCTCAGAATGCACACCTTGTTCAGCACCTTCGCGTTCACACCGGAGAGAAACCATACGAGT
GTAAGGTATGTCGGAAGGCGTTCAAGTCAAGTTCGCTACCTCGCCCAACATCAAAGAGTGCACACGGGGGA
GAAGCCTTACGAATGTATCGAATGCGGAAAGGCTTTCAGCAACCGCTCTAGTATCGCCACGACCAAGCGC
GTTCTACTGGGGAGAAACCTACGAATGCAACGTGTGTGGAAGGCGTTTAGCCTTCGCGCTACCTGA
CCGTGCACACGCGATTATACAGGGGAGCGCCCTACGAGTGTAAAGGATGTGGAAGGCTTCAGCCA
AACTCCACCTTGTCTCAGCACAGAGAAATCCACACCGGAGAGAAAAACCTATAAGTGCCAGGAGTGCCGC
AAGGCGTTACGCCAGATCGCATATCTGGCACAGCAGCGCGTGCATACTGGAGAGAAGCCATACGAGT
GCATTGAATGTGGCAAAGCCTTCTCCAACGACTCCAGTCTGACACAACATCAACGGGTGCATACAGGAGA
GAAGCCTTACGAGTGCACCGTTTTCGGGAAGGCTTCTCTTATTGTGGAAGCCTCGCACAGCATCAGAGA
ATCCATACGGGTGAAAGGCCGTACGAATGCAAGGAGTGTAAAAAGACATTTAGACAGCACGCCCATTTGG
CTCATCATCAACGCATCCATCGGAGAGAGCCTGTCCCCCGGAATCCAGTGAACCACAGGTCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214229 representing NM_144694
Red=Cloning site Green=Tags(s)

MAVGLLKAMYQELVTRFDVAVDFSQEEWDCLDSSQRHLYSNVMLENYRILVSLGLCFSPSVILLEQ GK
APWMVKRELTKGLCSGWEPICETEELTPKQDFYEEHQSKIIETLTSYNLEYSSLREEWKCEGYFERQPG
NQKACFKEEIITHEEPLFDEREQEYKSWGSFHQNPLLCTQKIIPKEEKVHKHDTQKRSFKKNLMAIKPKS
VCAEKKLLKNDCEKVFSSSLTLHQRIHTGEKPYKIECGKAFSQRSNLVQHRIHTGEKPYECKEKR
KAFSQNAHLVQHLRVHTGEKPYECKVCRKAFSQFAYLAQHQRVHTGEKPYECKGAFSNRSSIAQHQR
VHTGEKPYECNVCGKAFSLRAYLTVHQRIHTGERPYECKGKAFSQNSHLAQHRIHTGEKPYKQCECR
KAFSQIAYLAQHQRVHTGEKPYECKGAFSNDSSLTQHQRVHTGEKPYECTVCGKAFSYCGSLAQHQR
IHTGERPYECKEKKTRQHAHLAHQRIHIGESLSPNPVNHQVL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144694

ORF Size: 1608 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:

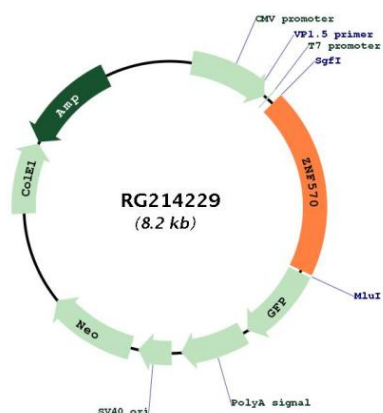
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_144694.1](#), [NP_653295.1](#)

RefSeq Size:	5598 bp
RefSeq ORF:	1611 bp
Locus ID:	148268
UniProt ID:	Q96NI8
Cytogenetics:	19q13.12
Gene Summary:	May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG214229