

Product datasheet for **RG205571**

ZNRF4 (NM_181710) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNRF4 (NM_181710) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNRF4
Synonyms:	RNF204; SPERIZIN; spzn; Ssrzf1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205571 representing NM_181710 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGCTCTGCCGTCCGGAGCACTTAATGCCTAGAGCCAGCAGGGTCCCAGTGGCCGCGTCACTGCCTC
TGAGCCACGCGGTCATTCCAACCACTGCCCTCGCGTTCTGGCCACAGGCCCCCTGGGAGACCCCGGAG
ATGCCAAAGGCCTCATGCCTGCCGCTCCAGTGGGACCTAGCAGCACACAGACAGCGAAGCGGGTGACC
ATGGGGTGGCCACGGCCGGCCAAAGCCCTCGTGGCAGTCAAAGCCTTGCTGGTCTGTGCGTGCTCCAGG
TGCCCGCGCAGGGCGGTGGTACGGGCGTGTGGAAGACAACCTCGAGCTCGGTGGACTTTGCGGATCTGCC
GGCGCTGTTGCGCGTCCCCTGGCCCCGAGGGCATAACGGGGCTACCTGATGGAGGTCAAGCCAGCCAAC
CGGTGCCATCCATCGAGGCCCGCGACTGGGCAACCGCTCTCTGGGCTCCATCGCGTGATCCGCCACT
ACGACTGCACCTTCGACCTCAAGGTGCTGAACGCCAGCGCGCCGGCTTCGAGGGCGCCATCGTGACAA
CGTCCACTCCGACGACCTCGTGAGCATGACCCACGTCTACGAGGACTTGAGGGGCCAGATCGCCATCCCC
TCAGTGTTCGTGAGCGAGGCCGCTCGCAGGACCTGCGGGTATCCTGGGCTGCAACAAGTCGGCCACG
CGCTGCTCCTGCCGACGACCCACCGTGCCACGACCTGGGCTGTACCCCGTGTGACCGTGTCTGGGT
GCTGGGCTGTACCCTGGCCCTGGTGTATCAGCCTTCTTTGTCTGAACCACTGTGGCTCTGGGCCAG
GCCTGCTGACGCCACAGACGGCCGGTGAAGACGTCTACCTGCCAGAAGGCCAGGTCCGACCTTCAGT
GGCACAACGACCTGTGTGCCATCTGCCTGGATGAGTACGAGGAGGGCGACCAACTCAAGATCCTGCCCTG
CTCCACACCTACCCTGCAATGCATTGACCCCTGGTTCTCCCAAGCCCCCGCGCTCCTGCCCGTG
TGCAAACAGTCGGTGGCCGCCACAGAAGACAGCTTTGACTCCACCACCTACAGCTTCAGGGACGAGGACC
CCTCCCTACCGGGCCACCGGCCCCCACTGGGCCATTCAAGTCCAGCTACGCTCCCGGAGGCTGGAGCT
GCTGGGCCGCGCAGTCCCCTGCACTGCAGCACCAGTCCCTGGAGGCAGAGTATACCCTGTCTCC
TCAGCCCCCTCTGAGGCCCTGGTCAG

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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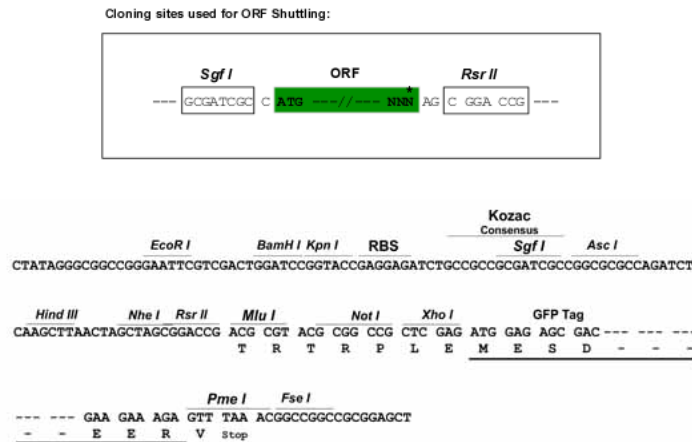
Protein Sequence: >RG205571 representing NM_181710
 Red=Cloning site Green=Tags(s)

MPLCRPEHLMPRASRVVAASLPLSHAVIPTQLPSRSGHRPPGRPRRCPKASCLPPPVGPSSTQTAKRVT
 MGWPRPGQALVAVKALLVLSLLQVPAQAVVRAVLEDNSSSVDFADLPALFGVPLAPEGIRGYLMEVKPAN
 ACHPIEAPRLGNRSLGSIALIRHYDCTFDLKVLAQRAGFEAAIVHNHSDLLVSMTHVYEDLRGQIAIP
 SVFVSEAAASQDLRVILGCNKSAHALLLPDPPCHDLGCHPVLTVSWVLGCTLALVVSFAFFVLNHLWLWAQ
 ACCSHRRPVKTSTCQKAQVRTFTWHNDLCAICLDEYEEGDQLKILPCSHTYHCKCIDPWF SQAPRRSCPV
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 SAPPEAPGQ

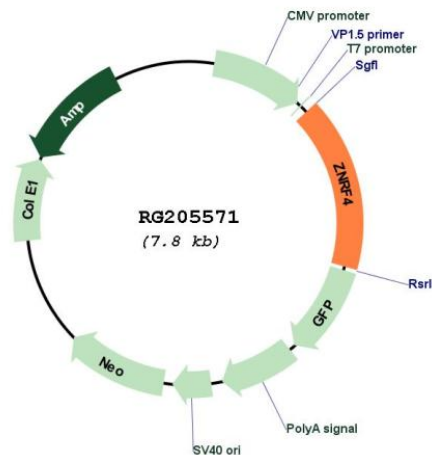
SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_181710

ORF Size:	1287 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:	<ol style="list-style-type: none">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_181710.2 , NP_859061.2
RefSeq Size:	1441 bp
RefSeq ORF:	1290 bp
Locus ID:	148066
UniProt ID:	Q8WWF5
Cytogenetics:	19p13.3
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	E3 ubiquitin-protein ligase which specifically induces ubiquitination and proteasomal degradation of CANX within the endoplasmic reticulum (PubMed:21205830). Could have a role in spermatogenesis (By similarity).[UniProtKB/Swiss-Prot Function]