

Product datasheet for **RG228214**

FAM170A (NM_001163991) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	FAM170A
Synonyms:	ZNFD
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG228214 representing NM_001163991
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAACGACGACAAAAGAGGAAACATTTGAAAAATGAAGAGTCCCAGGAAACCGCTGAGAAGGGAGGAG
GAATCCAGAGAATACATCGAGACAGCCCCAGCCTCAATCACCCCTGGCCAGGTTTCAGGAACGAGGAGA
GACTCCTCCCGCTCACAACATGTCTCCTTGTCGTCCTATTCATCCTATAAGACTTGTGTCTCTCTG
TGTGTAACAAAGAGGAAAGGGGCATGAAATATACTACATGCAGGTACAAATGAACAAAGGTGTGGCTG
TCTCCTGGGAGACAGAGGAACTTTGGAGTCCTTAGAAAAGCAGCCAAGGATGGAAGAAGTGACCCCTTC
TGAGGTTGTGAGGGTAGGTACTCCCCCTCTGATGTGTCCACCAGAAACCTCCTGTCTGACAGTGAGCCC
AGTGGGAGGAGAAAGAGCATGAGGAAAGGACAGAATCAGACAGCCTGCCAGGCTCACCCACCGTTGAGG
ACACACCCAGAGCCAAGACTCCTGACTGGCTGGTGACCATGGAGAACGGCTTCAGGTGCATGGCCTGCTG
CCGGGTGTTACCAACCATGGAAGCCCTCCAGGAGCATGTGCAGTTTGGGATCAGAGAGGGCTTCAGCTGC
CACGTCTTTCATCTCACCATGGCTCAGCTGACAGGCAACATGGAATCAGAGAGCACCCAAGATGAGCAGG
AGGAGGAAAATGGAATGAGAAGGAGGAGGAAGAGAAACCAGAAGCAAAGGAGGAGGGGCAGCCAC
AGAAGAAGACCTTGCCCTGAGGAGATCCTGGAGCCAATGTCCAGGCTGTGTGTTTCATTCTCCAAAGGAC
AGGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



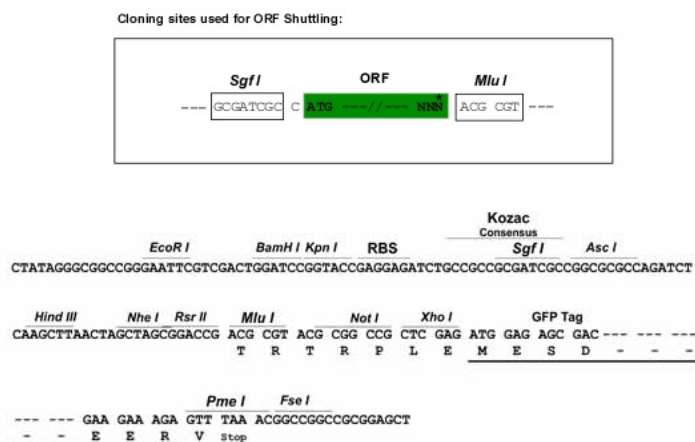
Protein Sequence: >RG228214 representing NM_001163991
Red=Cloning site Green=Tags(s)

MKRRQKRKHLENEESQETAEGGGGIQRIHRDSPQPQSPLAQVQERGETPPRSQHVLSSSYSSYKTCVSSL
CYNKEERGKMIYYMQVMNKGVAVSWETEETLESLEKQPRMEEVTLSEVVRVGTPPSDVSTRNLLSDSEP
SGEEKHEERTESDSLPGSPTVEDTPRAKTPDWLVTMENGFRMACCRVFTTMEALQEHVQFGIREGFSC
HVHFLTMAQLTGNMESESTQDEQEENGNEKEEEEKPEAKEEEGQPTTEEDLGLRRSWSQCPGCVFHSPKD
RN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001163991

ORF Size: 846 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_001163991.1](#), [NP_001157463.1](#)

RefSeq Size: 1244 bp

RefSeq ORF: 849 bp

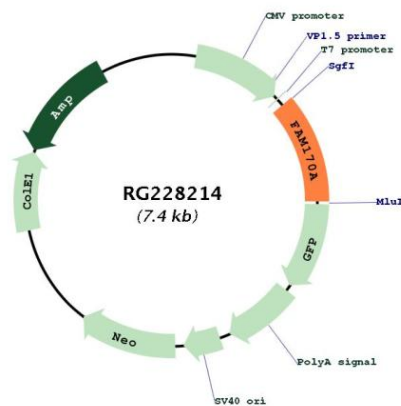
Locus ID: 340069

UniProt ID: [A1A519](#)

Cytogenetics: 5q23.1

Gene Summary: Acts as a nuclear transcription factor that positively regulates the expression of heat shock genes. Binds to heat shock promoter elements (HSE).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG228214