

Product datasheet for **RG224835**

HS747E2A (C22orf31) (NM_015370) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	HS747E2A
Synonyms:	bK747E2.1; HS747E2A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG224835 representing NM_015370
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCACCCAATCAATGTGAGACGAGACCCAGCATCCCTATCTATGGACTCCGACAGTCCATCTTATTAA
ATACCAGGCTTCAGGACTGCTATGTGGACTCGCCGGCTCTCACCACATCTGGATGGCCAGAACATGTGC
AAAGCAGAACATTAATGCCCCAGCACCAGCTACCACTTCCTCTTGGGAAGTTGTAAGGAACCCATTAATT
GCCAGTTCCTTCTCCCTGGTTAAGCTTGTACTCAGGCGGCACTGAAGAATAAGTGTGCCACCCACCAT
GCAAGTTTGGAGAAGGAAACTCTCGAAGAGATTAAAGCACAAGGACGATTTCAGTGATGAAAGCCACCA
GCAGGCCAGGAAAAGAACTTCATCAGTTCCAAGAGCAAGCAGCCAGCAGGGCATAGGAGGCCTGCAGGA
GGCATCAGAGAGAGTAAAGAAAGTTCAAAGGAGAAAACTAACAGTCCGCCAAGATCTTGAGGACAGAT
ATGCTGAACATGTGGCTGCCACCAAGCGCTACCCAGGACAGTGGGACAGCAGCTGGAAGGGCCGAGT
GTTGCTTCCTGAAACCCAAAAGAGACAGCAGTTGTCGGAGGACACGCTAACCATCCATGGTCTCCCCACA
GAGGGTTACCAGGCTCTGTACCAGCTGTGGTGAGCCAATGCTGTGGAATCCTTCAGGGACCCCAAGA
GGTACAGCCTGGAGCTGGGCAAGGCCATTAACAAAAAGCTCTGGGAGGCTCTTTGCAGTCAGGGTGCCAT
CTCTGAAGGTGCTCAGAGGGACCGTTCCTGGCAGGAAGCAGCCAGGTGTCCACGAGGAGCCTGTACTC
AAGAAATGGCCCAAGTTAAAGAGCAAAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG224835 representing NM_015370
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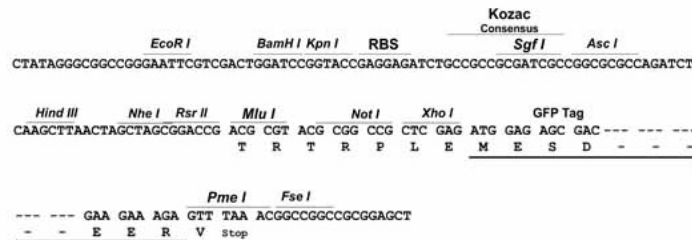
MHPINVRDPSIPIYGLRQSIILLNTRLQDCYVDSPALTNIWMARTCAKQINAPAPATTSSWEVVRNPLI
 ASSFSLVKLVLRRLKNKCCPPCKFGGKLSKRLKHKDDSVMKATQQARKRNFISKSKQPAGHRRPAG
 GIRESKESSEKKLTVRQDLEDRYAEHVAATQALPQDSGTAAWKGRVLLPETQKRQQLSEDTLTIHGLPT
 EGYQALYHAVVEPMLWNPSGTPKRYSELEKAIKQKLWEALCSQGAISEGAQRDRFPGRKQPGVHEEPVL
 KKWPCLKSKK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_015370

ORF Size: 870 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_015370.1](#), [NP_056185.1](#)

RefSeq Size: 1070 bp

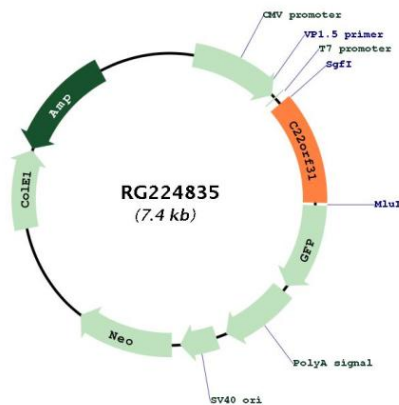
RefSeq ORF: 873 bp

Locus ID: 25770

UniProt ID: [O95567](#)

Cytogenetics: 22q12.1

Product images:



Circular map for RG224835