

Product datasheet for **RG215684**

C10orf78 (SFRI) (NM_145247) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	C10orf78
Synonyms:	bA373N18.1; C10orf78; MEI5; MEIR5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG215684 representing NM_145247
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGTCCGTCAGGCTCAGCTGTGGTTTTACCTAGCACTCCTCAGGCCTCTGCGAATCCATCATCTC
CCTATACAAATAGTTCCCGAAAACAACCTATGAGTGCAACACTTAGAGAAAGATTAAGGAAAACAAGATT
TTCAATTTAATTCCTCTTACAATGTGGTGAAACGTCTTAAAGTAGAGAGTGAAGAAAATGATCAGACCTTT
TCAGAGAAACCAGCATCTTCCACAGAGGAAAACGTTTGGAAATTTCAAGAAAGTTTTAAACATATAGACA
GTGAATTTGAAGAAAATACAAATTTGAAAAATACTTTGAAGAATCTCAATGTCTGTGAATCTCAGTCACT
TGATTCTGGATCATGCAGTGTCTCCAAAATGAGTTTGTGAGTGAGAAGCTTCCTAAACAAAGATTTAAAC
GCTGAAAAGCCAAATTGGTGAAGCAGGTTCCAGGAGAAAGAAGACCTTCTCGGAGGCTAAAACCTAGTCA
AAATGTATAGATCAAAGAATGATCTGTCTCAGTTACAGTTGTTAATAAAGAAGTGAGAAGCTGTAGCCA
GCTCTTGCTTTATGAGTTGCAGTCAGCTGTGTCTGAAGAGAAACAAGAACTAAGCCTTACTCAATTGATA
GACCACTATGGGTTAGATGATAAATTAACACTATAACAGAAGTGAAGAAGATTTATAGATGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG215684 representing NM_145247
Red=Cloning site Green=Tags(s)

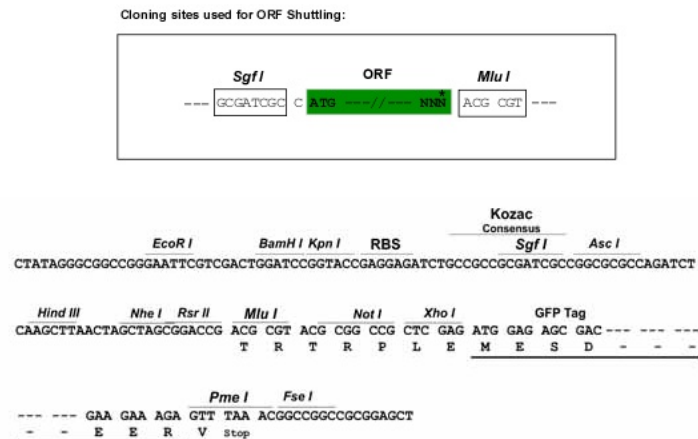
MESPSGSAVLPSTPQASANPSSPYNTSSRKQPM SATLRERLRKTRFSFNSSYNVVKRLKVESEENDQTF
SEKPASSTEENCLEFQESFKHIDSEFEENTNLKNTLKNLNVCESQSLDSGSCSALQNEFVSEKLPKQRLN
AEKAKLVKQVQEKEDLLRRLKLVKMYRSKNDLSQLQLLIKWRSCSQLLLYELQSAVSEENKLSLTQLI
DHYGLDDKLLHYNRSEEEFIDV

TRTRPLE - GFP Tag - V



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145247

ORF Size: 696 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_145247.2](#)

RefSeq Size: 1518 bp

RefSeq ORF: 699 bp

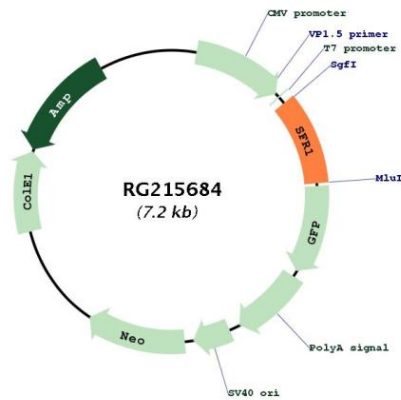
Locus ID: 119392

UniProt ID: [Q86XK3](#)

Cytogenetics: 10q25.1

Gene Summary: Component of the SWI5-SFR1 complex, a complex required for double-strand break repair via homologous recombination (PubMed:21252223). Acts as a transcriptional modulator for ESR1 (PubMed:23874500).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG215684