

Product datasheet for **RG216967**

RBFOX1 (NM_145891) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RBFOX1 (NM_145891) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RBFOX1
Synonyms:	2BP1; A2BP1; FOX-1; FOX1; HRNBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216967 representing NM_145891 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGCGTCTCAAGGAGTTCTCCTGCATCCTTATGGCGTGCCTATGATTGTACCGGCAGCTCCTTACC
TTCCTGGACTGATTCAGGGTAATCAGGAAGCAGCCGCTGCCCTGACACAATGGCTCAGCCTTACGCTTC
GGCCAGTTTGTCCCCGCAGAACGGTATCCCCGCGGAATACACGGCCCTCATCCCCACCCCGGCCA
GAGTACACAGGCCAGACCAGGTTCCCGAGCACACATTAACCTGTACCCTCCCGCCAGACGCACTCCG
AGCAGAGCCCGGGGACACGAGCGCTCAGACCGTCTCTGGCACCACACAGACAGATGACGCAGCACC
GACGGATGGCCAGCCCCAGACACAACCTTCTGAAAACACGGAAAACAAGTCTCAGCCAAGCGGCTGCAT
GTCTCCAATATCCCTTCAGGTTCCGGGATCCGGACCTCAGACAAATGTTTGGTCAATTTGGTAAAAATCT
TAGATGTTGAAATATTTTTAATGAGCGAGGCTCAAAGGGATTTGGTTTCGTAACCTTTCGAAAATAGTGC
CGATGCGGACAGGGCGAGGGAGAAATTACACGGCACCGTGGTAGAGGGCCGTAATAATCGAGGTAAATAAT
GCCACAGCACGTGAATGACAAATAAAAAGACCGTCAACCCTTATACAAATGGCTGGAAATTGAATCCAG
TTGTGGGTGCAGTCTACAGTCCCGAATTCTATGCAGGCACGGTCTGTGTGCCAGGCCAACAGGAGGG
ATCTTCCATGTACAGTCCCCAGTTCACCTTGTATATACTTCTGCAATGCCAGGCTTCCCGTATCCAGCA
GCCACCCCGCGGCCCTACCGAGGGGCGCACCTGCGAGGCGCGGTGCGCACCCTGTAACAACACCTTCA
GGCCCGCGGCCCGCCCGCCCGATCCCCGGCTACGGCGGAGTAGTGATCAAGAGCCTGTGTATGGCAA
TAAATTGCTGCAGGGTGGTTATGCTGCATACCGCTACGCCAGCCTACCCTGCCACTGCCGCTGCCTAC
AGTGACAGTTACGGACGAGTTTATGCTGCCAGCCCTACCACCACGCACTTGCTCCAGCCCCACCTACG
GCGTTGGTGCCATGAATGCTTTTGCACCTTTGACTGATGCCAAGACTAGGAGCCATGCTGATGATGTGGG
TCTCGTCTTTCTTCATTGCAGGCTAGTATATACCGAGGGGGATACAACCGTTTTGCTCCATAC

ACGGTACGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216967 representing NM_145891
 Red=Cloning site Green=Tags(s)

MLASQGVLLHPYGVPMIVPAAPYLPLGLIQGNQEAAPDTMAQPYASAQFAPPQNGIPAEYTAPHPHPAP
 EYTGQTTVPEHTLNLYPPAQTHSEQSPADTSAQTVSGTATQTDDAAPT DGQPQTQPSSENTENKSQPKRLH
 VSNIPFRFRDPLRQMFQGF GKILDVEIIFNERGSKGFGFVTFENSADADRAREKLHGTVVEGRKIEVNN
 ATARVMTNKKTVNPHYTNGWKLNPVVGAVYSPEFYAGTVLLCQANQEGSSMYSAPSSLVYTSAMPGFYPYA
 ATAAAAYRG AHLRGRRTVYNTFRAAAPPPP IPAYGGVYQEPVYGNKLLQGGYAAARYAQPATPATAAAAY
 SDSYGRVYAADPYHHALAPAPTYGVGAMNAFAPLTD AKTRSHADDVGLVLSLQASIRGGYNRFAPY

TRTRPLE - GFP Tag - V

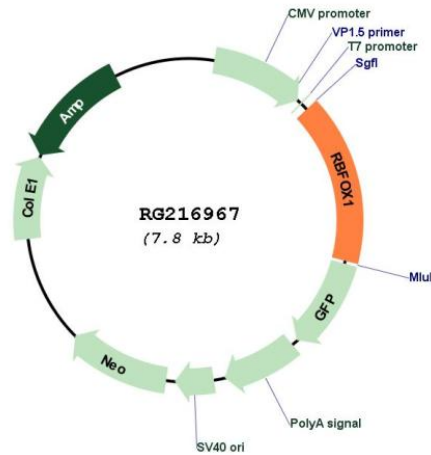
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_145891

ORF Size:	1254 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_145891.3
RefSeq Size:	3262 bp
RefSeq ORF:	1257 bp
Locus ID:	54715
UniProt ID:	Q9NWB1
Cytogenetics:	16p13.3
Domains:	RRM
Gene Summary:	The Fox-1 family of RNA-binding proteins is evolutionarily conserved, and regulates tissue-specific alternative splicing in metazoa. Fox-1 recognizes a (U)GCAUG stretch in regulated exons or in flanking introns. The protein binds to the C-terminus of ataxin-2 and may contribute to the restricted pathology of spinocerebellar ataxia type 2 (SCA2). Ataxin-2 is the product of the SCA2 gene which causes familial neurodegenerative diseases. Fox-1 and ataxin-2 are both localized in the trans-Golgi network. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]