

## Product datasheet for **RG213933**

### **RBFOX1 (NM\_145892) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RBFOX1 (NM_145892) 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:	>RG213933 representing NM_145892 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGGCGTCTCAAGGAGTTCTCCTGCATCCTTATGGCGTGCCTATGATTGTACCGGCAGCTCCTTACC  
TTCCTGGACTGATTCAGGGTAATCAGGAAGCAGCCGCTGCCCTGACACAATGGCTCAGCCTTACGCTTC  
GGCCAGTTTGTCCCCGCAGAACGGTATCCCCGCGGAATACACGGCCCTCATCCCCACCCCGGCCA  
GAGTACACAGGCCAGACCAGGTTCCCGAGCACACATTAACCTGTACCCTCCCGCCAGACGCACTCCG  
AGCAGAGCCCGGGGACACGAGCGCTCAGACCGTCTCTGGCACCACACAGACAGATGACGCAGCACC  
GACGGATGGCCAGCCCCAGACACAACCTTCTGAAAACACGGAAAACAAGTCTCAGCCAAGCGGCTGCAT  
GTCTCCAATATCCCTTCAGGTTCCGGGATCCGGACCTCAGACAAATGTTTGGTCAATTTGGTAAAACT  
TAGATGTTGAAATATTTTTAATGAGCGAGGCTCAAAGGGATTTGGTTTCGTAACCTTCGAAAATAGTGC  
CGATGCGGACAGGGCGAGGGAGAAATTACACGGCACCGTGGTAGAGGGCCGTAATAATCGAGGTAAATAAT  
GCCACAGCACGTGTAATGACAAATAAAAAGACCGTCAACCCTTATACAAATGGCTGGAAATGAATCCAG  
TTGTGGGTGCAGTCTACAGTCCCGAATTCTATGCAGGCACGGTCTGTGTGCCAGGCCAACAGGAGGG  
ATCTTCCATGTACAGTCCCCAGTTCACCTTGATATACTTCTGCAATGCCAGGCTTCCCGTATCCAGCA  
GCCACCCGCGGCCCGCCTACCGAGGGGCGCACCTGCGAGGCGCGGTGCGACCGGTACAACACCTTCA  
GGCCCGGGCGCCCCCGCCCGATCCCCGGCTACGGCGGAGTAGTGATCAAGAGCCTGTGTATGGCAA  
TAAATTGCTGCAGGGTGGTTATGCTGCATACCGCTACGCCAGCCTACCCTGCCACTGCCGCTGCCTAC  
AGTGACAGTTACGGACGAGTTTATGCTGCCACCCTACCACCACGCACTTGCTCCAGCCCCACCTACG  
GCGTTGGTGCCATGGCTAGTATATACCGAGGGGATACAACCGTTTTGCTCCATAC

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTAA



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**Protein Sequence:** >RG213933 representing NM\_145892  
 Red=Cloning site Green=Tags(s)

MLASQGVLLHPYGVPMIVPAAPYLPGLIQGNQEAAPDTMAQPYASAQFAPPQNGIPAEYTAPHPHPAP  
 EYTGQTTVPEHTLNLYPPAQTHSEQSPADTSAQTVSGTATQTDDAAPT DGQPQTQPSSENTENKSQPKRLH  
 VSNIPFRFRDPLRQMFQGF GKILDVEIIFNERGSKGFGVTFENSADADRAREKLGHTVVEGRKIEVNN  
 ATARVMTNKKT VNPYTNGWKLNPVVGAVYSPEFYAGTVLLCQANQEGSSMYSAPSSLVYTSAMPGFYPYA  
 ATAAAAAYRGAHLRGRRTVYNTFRAAAPPPPPIPAYGGVVYQEPVYGNKLLQGGYAAARYAQPATPATAAA  
 SDSYGRVYAADPYHHALAPAPTYGVGAMASIYRGGYNRFAPY

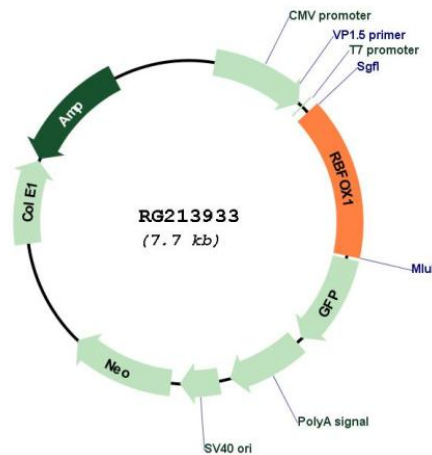
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_145892

<b>ORF Size:</b>	1176 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_145892.3</a>
<b>RefSeq Size:</b>	3184 bp
<b>RefSeq ORF:</b>	1179 bp
<b>Locus ID:</b>	54715
<b>UniProt ID:</b>	<a href="#">Q9NWB1</a>
<b>Cytogenetics:</b>	16p13.3
<b>Gene Summary:</b>	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]