

Product datasheet for **RG210931**

Axin 2 (AXIN2) (NM_004655) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Axin 2 (AXIN2) (NM_004655) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Axin 2
Synonyms:	AXIL; ODCRCS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210931 representing NM_004655
 Red=Cloning site Blue=ORF Green=Tags(s)

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 GCC**CGGATCGCC**

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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG210931 representing NM_004655
Red=Cloning site Green=Tags(s)

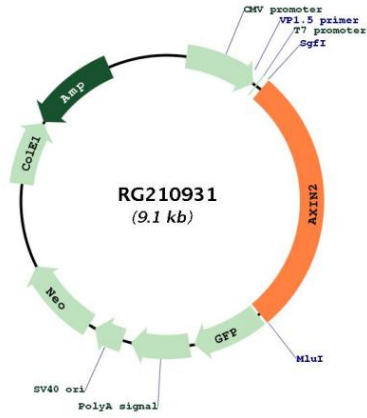
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RID
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

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_004655.1
RefSeq Size:	4259 bp
RefSeq ORF:	2532 bp
Locus ID:	8313
UniProt ID:	Q9Y2T1
Cytogenetics:	17q24.1
Domains:	RGS, DAX
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Induced pluripotent stem cells
Protein Pathways:	Basal cell carcinoma, Colorectal cancer, Endometrial cancer, Pathways in cancer, Wnt signaling pathway
Gene Summary:	<p>The Axin-related protein, Axin2, presumably plays an important role in the regulation of the stability of beta-catenin in the Wnt signaling pathway, like its rodent homologs, mouse conductin/rat axil. In mouse, conductin organizes a multiprotein complex of APC (adenomatous polyposis of the colon), beta-catenin, glycogen synthase kinase 3-beta, and conductin, which leads to the degradation of beta-catenin. Apparently, the deregulation of beta-catenin is an important event in the genesis of a number of malignancies. The AXIN2 gene has been mapped to 17q23-q24, a region that shows frequent loss of heterozygosity in breast cancer, neuroblastoma, and other tumors. Mutations in this gene have been associated with colorectal cancer with defective mismatch repair. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG210931