

## Product datasheet for **RG210490**

### ARL13B (NM\_144996) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARL13B (NM_144996) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARL13B
Synonyms:	ARL2L1; JBTS8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210490 representing NM_144996 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTCAGTCTGATGGCCAGTTGCTGCGGCTGGTTCAAGCGGTGGCGGGAGCCTGTGAGTTGGCAAATA  
AACAGATAAAGAAGGAGCTTTAGGAGAAGCTGATGTCATTGAATGTCTATCTCTGGAAAAATTGGTCAA  
TGAGCACAAGTGCCTGTGTCAGATAGAACCATGTTGAGCAATCTCGGGGTATGGAAAGAAAATTGACAAG  
TCCATTAAGGAGCCTTTATTGGCTGCTACATGTTATTGCAAGAGACTTTGATGCCTTAATGAACGCA  
TCCAAAAGAGACAACAGAGCAGCGTGCTTTGAGGAACAAGAGAAACAAGAAAGAGCTGAACGAGTGCG  
AAAATTACGAGAAGAAAGAAAACAAAATGAACAGGAGCAGGCTGAACTCGATGGAACCAAGTGGTCTGGCT  
GAGTTGGACCCAGAACCAACGAATCCTTTCCAGCCAATAGCATCTGTAATCATTGAGAATGAAGGAAAAC  
TTGAAAGAGAGAAAAAACCAAAAAATGGAGAAAGACAGTGTGGCTGCCACCTGAAACATAAAATGGA  
GCATGAGCAAAATAGAGACACAAGGCCAGGTTAATCACAATGGCCAAAAAATAATGAATTTGGACTAGTA  
GAAAATTATAAGGAGGCATTAACACAGCAGTTAAAGAATGAAGATGAGACAGACCGGCCATCATTGGAAT  
CAGCTAATGGTAAAAAGAAAACTAAGAACTAAGAATGAAAGGAACACCGGGTAGAACCACTTAATAT  
AGATGACTGTGCTCCTGAGAGTCCAACGCCACCCCAACCCCTCCTCCTGTTGGCTGGGGAACCCCTAAA  
GTCCTAGACTTCCAAAACCTTGAGCCTCTTGGTAAACACATCATAATGATTTCTATAGGAAGCCACTGC  
CTCCCTGGCTGTGCCACAGCGACCTAACAGTGATGCTCATGATGTGATCTCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG210490 representing NM\_144996  
Red=Cloning site Green=Tags(s)

MFSLMASCWGFKRWREPVRLANKQDKEGALGEADVIECLSLEKLVNEHKCLCQIEPCSAISGYGKKIDK  
 SIKKGLYWLLHVIARDFDALNERIQKETTEQRAL EEQE KQERAERVRLREERKQNEQEQAELDGT SGLA  
 ELDP EPTNPFQPIASV I IENEGKLER EKK NQKMEK DSDGCHLKHKMEHEQIETQGQVNHNGQKNNEFGLV  
 ENYKEAL TQQLKNEDETDRPSLESANGKKKTKKLRMKRNHRVEPLNIDDCAPESPTPPPPPPVWGTPK  
 VTRLPKLEPLGETHHNDFYRKPLPLAVPQRPN SDAHDV I S

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_144996

**ORF Size:** 963 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.

**RefSeq:** [NM\\_144996.4](#)

**RefSeq Size:** 3286 bp

**RefSeq ORF:** 966 bp

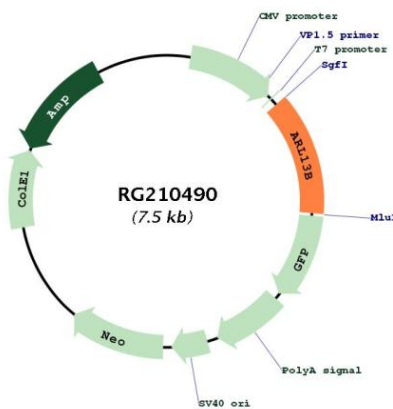
**Locus ID:** 200894

**UniProt ID:** [Q3SXY8](#)

**Cytogenetics:** 3q11.1-q11.2

**Gene Summary:** This gene encodes a member of the ADP-ribosylation factor-like family. The encoded protein is a small GTPase that contains both N-terminal and C-terminal guanine nucleotide-binding motifs. This protein is localized in the cilia and plays a role in cilia formation and in maintenance of cilia. Mutations in this gene are the cause of Joubert syndrome 8. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2010]

## Product images:



Circular map for RG210490