

Product datasheet for **RG220429**

CLSTN2 (NM_022131) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLSTN2 (NM_022131) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CLSTN2
Synonyms:	ALC-GAMMA; alcagamma; CDHR13; CS2; CSTN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220429 representing NM_022131
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGCCTGGGCGGCTGTGCTGGGTGCCGCTCCTGCTGGCGCTGGGCGTGGGGAGCGGCAGCGCGGTG
 GCGGGGACAGCCGGCAGCGCCGCTCCTCGCGGCTAAAGTCAATAAGCACAAAGCCATGGATCGAGACTTC
 ATATCATGGAGTCATAACTGAGAACAATGACACAGTCATTTTGGACCCACCACTGGTAGCCCTGGATAAA
 GATGCACCGGTTCTTTTGCAGGGGAAATCTGTGCGTTCAAGATCCATGGCCAGGAGCTGCCCTTTGAGG
 CTGTGGTGTCAACAAGACATCAGGAGAGGGCCGGCTCCGTGCCAAGAGCCCCATTGACTGTGAGTTGCA
 GAAGGAGTACACATTCATCATCCAGGCCTATGACTGTGGTGTGGGCCCCACGAGACAGCCTGAAAAAG
 TCACACAAGGCCGTGGTCCATATACAGGTGAAGGATGTCAACGAGTTTGTCCCACCTTCAAAGAGCCAG
 CCTACAAGGCTGTTGTGACGGAGGGCAAGATCTATGACAGCATTCTGCAGGTGGAGGCCATTGACGAGGA
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 AGAAATGGCAACATCAGGAACACTGAGAAGCTGAGCTATGACAAAACAACACCACTATGAGATCCTGGTGA
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 CAAGCCTGGCTGGCAAGACTGGACCAAGAGGATTGAGTACCAGCCTGGCTCCGGGAGCATGCCCTGTTC
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 CCAAGTCTTTGGGAAGACGTATGCATCAGTATCCCTGAGGTAGATGCCTATGTGATGGTCTCCAGGCC
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 GGGGAGTGACCTCTTCCCTGATATCAAGATTGTGAGCACCTTCGCCAAAACCGAAGCCCCGGGGACGT
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 AGGAGACTGAGGCTGCCAAGGAATCTGAGATGGACTGGGACGATTCTGCGCTGACTATCACAGTCAACCC
 CATGGAGAAACATGAAGGACCAGGGCATGGGAAGATGAGACTGAGGGAGAAGAGGAGGAAGAAGCCGAG
 GAAGAAATGAGCTCCAGCAGTGGCTCTGACGACAGCGAAGAGGAGGAGGAGGAGGAGGATGGGCAGAG
 GCAGACATGGGCAGAATGGAGCCAGGCAAGCCAGCTGGAGTGGGATGACTCCACCTCCCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG220429 representing NM_022131
Red=Cloning site Green=Tags(s)

MLPGRLCWVPLLLALGVGSGGGGDSRQRLLAAKVNKHKPWIETSYHGVITENNDTVILDPLVALDK
 DAPVPFAGEICAFKIHGQELPFEAVLNKTSGEGRLRAKSPIDCELQKEYTFIIQAYDCGAGPHETA
 SHKAVVHIQVKDVNEFAPTFKEPAYKAVVTEGKIYDSILQVEAIDEDCSPQYSQICNYEIVTTDVP
 FAIDRNGNIRNTEKLSYDKQHQYEILVTAYDCGQKPAAQDTLVQVDVKPVCKPGWQDWTKRIEYQ
 PGGSGMPLFPSIHLETCDGAVSSLQIVTELQTNVIGKCDRETYSEKSLQKLCGASSGIIDLLPSP
 SAATNWTAGLLVDSSEMIFKFDGRQGAKVPDGI VPKNLTDQFTITMWMKHGSPGVRAEKETILC
 NSDKTEMNRHHYALYVHNCRLVFLLRKDFDQADTFRPAEFHWKLDQICDKWEHYVYINVEFPVVT
 LYMDGATYEPYLVNDWPIHPSHIAMQLTVGACWQGGVTKPQFAQFFHGSLASLTIRPGKMSQKVI
 SCLQACKEGLDINSLES LGGQIKYHFNPQSILVMEGDDIGNINRALQKVSYINSRQFPPTAGV
 RRLKVS SKVQCFGEDVCISIPEVDAYVMVLAIEPRITLRGTDHFWRPAAQFESARGVTLFP
 DIKIVSTFAKTEAPGDVKTTPKSEVLEEMLHNLD FCDILVIGGDLDRQECLELNHSELHQ
 RHLDATNSTAGYSIYGVGMSRVEQVLHHIRYRNWRPASLEARRFRIKCSELNGRYTSNEFN
 LEVSILHEDQVSDKEHVNHLIVQPPFLQSVHHPESRSSIQHSSVVP SIATVVIISVCM
 LVFVYVAMGVYRVRIAHQHF IQETEAAKSEMDWDDSALTITVNPMEKHEGPGHGEDETEG
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

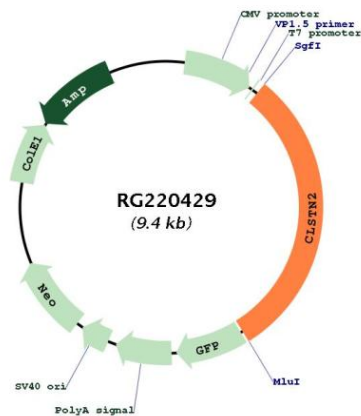


ACCN: NM_022131

ORF Size: 2865 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_022131.3](#)
- RefSeq Size:** 4421 bp
- RefSeq ORF:** 2868 bp
- Locus ID:** 64084
- UniProt ID:** [Q9H4D0](#)
- Cytogenetics:** 3q23
- Protein Families:** Transmembrane
- Gene Summary:** May modulate calcium-mediated postsynaptic signals.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG220429