OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG200129

C12orf11 (ASUN) (NM_018164) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C12orf11 (ASUN) (NM_018164) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C12orf11
Synonyms:	ASUN; C12orf11; GCT1; Mat89Bb; NET48; SPATA30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG200129 representing NM_018164
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGATTTTTTTCTGAATCTCATAAAACAGTGTTTGTTGTGGATCACTGCCCTTATATGGCAGAATCTT
GCAGGCAGCATGTCGAGTTTGATATGCTGGTGAAGAATAGAACCCAAGGAATCATTCCTTTGGCCCCCAT
ATCTAAATCATTGTGGACTTGCTCAGTAGAATCTTCCATGGAATATTGTAGAATAATGTATGATATATTT
CCTTTCAAAAAGCTGGTGAATTTTATTGTGAGTGACTCTGGAGCACATGTTTTAAATTCTTGGACTCAAG
AAGACCAAAATTTACAGGAGCTAATGGCAGCATTAGCCGCTGTTGGGCCTCCTAATCCTCGGGCAGATCC
AGAGTGCTGCAGTATTCTGCATGGCCTTGTTGCAGCAGTGGAAACTCTCTGCAAAATTACTGAATACCAA
CATGAGGCTCGTACTCTACTCATGGAGAATGCAGAACGTGTTGGAAATAGAGGACGAATAATCTGTATTA
CTAATGCAAAAAGTGATAGTCATGTGCGAATGCTTGAAGACTGTGTCCAGGAAACGATTCATGAACATAA
CAAGCTTGCTGCAAATTCAGATCATCTCATGCAGATTCAAAAATGTGAGTTGGTCTTGATCCACACCTAC
CCAGTTGGTGAAGACAGCCTTGTATCTGATCGTTCTAAAAAAGAGTTGTCCCCGGTTTTAACCAGTGAAG
TTCATAGTGTTCGTGCAGGACGGCATCTTGCTACCAAATTGAATATTTTAGTACAGCAACATTTTGACTT
GGCTTCAACTACTATTACAAATATTCCAATGAAGGAAGAACAGCATGCTAACACATCTGCCAATTATGAT
GTGGAGCTACTTCATCACAAAGATGCACATGTAGATTTCCTGAAAAGTGGTGATTCGCATCTAGGTGGCG
GCAGTCGAGAAGGCTCGTTTAAAGAAACAATAACATTAAAGTGGTGTACACCAAGGACAAATAACATTGA
ATTACACTATTGTACTGGAGCTTATCGGATTTCACCTGTAGATGTAAATAGTAGACCTTCCTCCTGCCTT
ACTAATTTTCTTCTAAATGGTCGTTCTGTTTTATTGGAACAACCACGAAAGTCAGGTTCTAAAGTCATTA
GTCATATGCTTAGTAGCCATGGAGGAGAGATTTTTTTGCACGTCCTTAGCAGTTCTCGATCCATTCTAGA
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AACCCTTGTCAGAGCCCATATCAACAACTCAGAGAAACATCAAAGAGTCTTGGAATGTCTGATGGCATGC
AGGAGCAAACCCCCAGAAGAGGAAGAACGAAAGAAACGAGGAAGAAAGAGGGAAGACAAAGAGGACAAGT
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AGAGCGTGGAAAAGAAGAATTGGCTGAAGCTGAGATTATAAAAGATTCGCCTGATTCCCCAGAACCTCCA
AACAAAAAACCCCCTTGTTGAAATGGATGAAACTCCACAAGTGGAAAAATCAAAAGGGCCAGTGTCGTTAT
TATCCTTGTGGAGTAATAGAATCAATACTGCCAATTCCAGAAAACATCAGGAATTTGCTGGACGTTTGAA
CTCTGTTAATAACAGAGCTGAACTATATCAACATCTTAAAGAGGAAAATGGGATGGAGACAACAAAAAAT
GGAAAAGCCAGCCGGCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

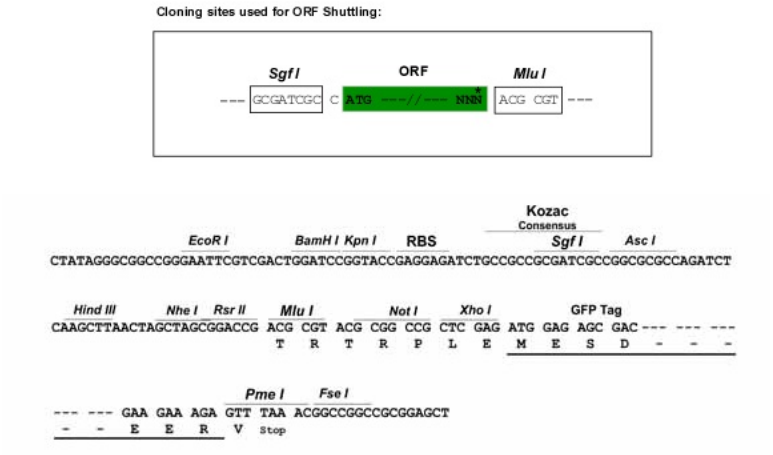
>RG200129 representing NM_018164
Red=Cloning site Green=Tags(s)

MKIFSESHKTVFVVDHCPYMAESCRQHVEFDMLVKNRTQGIIPLAPISKSLWTCSVESSMEYCRIMYDIF
PFKKLVNFIVSDSGAHVLNSWTQEDQNLQELMAALAAVGPPNPRADPECCSILHGLVAAVETLCKITEYQ
HEARTLLMENAERVGNRGRIICITNAKSDSHVRMLEDCVQETIHEHNKLAANSDHLMQIQKCELVLIHTY
PVGEDSLVSDRSKKELSPVLTSEVHSVRAGRHLATKLNILVQQHFDLASTTITNIPMKEEQHANTSANYD
VELLHHKDAHVDFLKSGDSHLGGGSREGSFKETITLKWCTPRTNNIELHYCTGAYRISPVDVNSRPSSCL
TNFLLNGRSVLLEQPRKSGSKVISHMLSSHGGEIFLHVLSSSRSILEDPPSISEGCGGRVTDYRITDFGE
FMRENRLTPFLDPRYKIDGSLEVPLERAKDQLEKHTRYWPMIISQTTIFNMQAVVPLASVIVKESLTEED
VLNCQKTIYNLVDMERKNDPLPISTVGTRGKGPKRDEQYRIMWNELETLVRAHINNSEKHQRVLECLMAC
RSKPPEEEERKKRGRKREDKEDKSEKAVKDYEQEKSWQDSERLKGILERGKEELAEAEIIKDSPDSPEPP
NKKPLVEMDETPQVEKSKGPVSLLSLWSNRINTANSRKHQEFAGRLNSVNNRAELYQHLKEENGMETTKN
GKASRQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018164

ORF Size: 2118 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_018164.1, NP_060634.1

RefSeq Size: 2635 bp

RefSeq ORF: 2121 bp

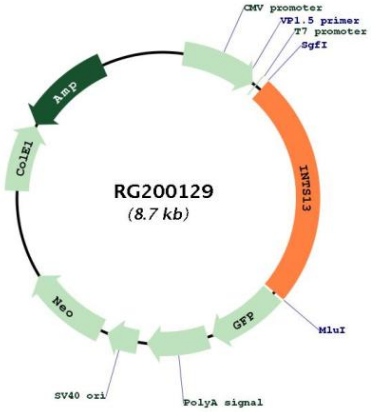
Locus ID: 55726

UniProt ID: Q9NVM9

Cytogenetics: 12p11.23

Gene Summary: Crucial regulator of the mitotic cell cycle and development. At prophase, required for dynein anchoring to the nuclear envelope important for proper centrosome-nucleus coupling. At G2/M phase, may be required for proper spindle formation and execution of cytokinesis. Probable component of the Integrator (INT) complex, a complex involved in the small nuclear RNAs (snRNA) U1 and U2 transcription and in their 3'-box-dependent processing (PubMed:23904267).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG200129