

Product datasheet for **RG215747**

INSC (NM_001042536) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	INSC (NM_001042536) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	INSC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215747 representing NM_001042536
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGATGGCACTGCCTGGAGTCCACCTGGACTCCGTCACCCTGCCGGTCCAGCGCTACACCTGATGC
 AGGTGGACTCAGTCCAGCGCTGGATGGAAGATCTGAAGCTCATGACCGAGTGCGAGTGCATGTGTCTCT
 GCAGGCCAAGCCCATCAGCCTGGAAGAGGATGCACAGGGTGACCTCATCTGGCAGGTGGCCCTGGCCCT
 GGAGACCCCTGCAGTCTGCTCAAACGGGGTTGGGTATTAGCACAGAGCTGCGCAGGATCGGGCAGA
 AGCTGGCCAGGACCGCTGGGCACGGGTGCACAGCATGAGCGTGCCTGACCTGCCATGCCCGCTCCAT
 GGTGAGCAGTACAGTGTGTGACAGGAACTCCTTGAAGGAAATGGGCGAGATTGAGAAGCTGCTAATG
 GAGAAATGCTCGGAGCTCTGGCAGTACAGAGAGGTGCCTTCAAGTTGAGAATGAGCATGCTCTGAAGT
 CAATGAAGGCCTCGTGAGTGCAGCCCTGAGCATGCTGGCCAGCACTTTGGCCAGCTGCTGGAGCTGCC
 CCTGACACGGGAGTTCCAGCAGTGGTGAAGAAAATTGATGCCTCAGACAATATCTACACCACAGAGTCC
 ACCACAGGGAACCTGTTACGCTGACCCAGGAGGGGGCTCCCTTGTGCCGCATCATAGCCAAGGAGGGTG
 GGGTCGTAGCACTCTTCAAGTTTGCCTGAGGACAGTTTCCGGTGTGTACCCCAAGGCGCTCCGCAC
 GCTGGCCCTCCATCTGCTGCGTGGAGAGGGTGTCCACCAGCTGGAGAAGGTGGATGGCGTTCTGTCTTG
 GCCGACATCTGACCCGACAACAGCCACTCAGAGGCCACACGGGCTGAGGCTGCGGCTGTGGTGGCCAGG
 TCACCTCCCCACACCTGCCCGTCAACAGCACCTCAGTAGCTTCTGGAGAGCATGGAGGAGATCGTGAC
 AGCCCTCGTCAAAGTGTGCAAGAGGCCTCATCAGGGGAAGTCTTCTACTGGCCTCTGCGGCCCTTGCC
 AACATCACGTTCTTTGACACAATGGCCTGCGAGATGCTCCTGCAGTTGAATGCCATCCGTGTTCTCCTGG
 AAGCCTGCAGTGACAAGCAGAGAGTGGACACGCTTACACTCGGGACCAGATTGTACCATCTTGGCAAA
 CATGCTGTCTAGAACAGTGTGCTCTGACATCATTAGGAAAATGGGGTCCAGCTTATCATGGGCATG
 CTGCTGAAAAACCAAGTCTGGGACTCCTGCTGAAGTGGCAGCCTGTGAGCGAGTCCAGCAGAAAGCTG
 CAGTGACCCTGGCTCGTCTCAGCCGAGACCCAGATGTGGCACGGGAGGCCGTGCGGCTCAGCTGCATGTC
 CCGTCTCATCGAGCTCTGCAGATCCCCATCAGAGAGGAACAGCAGTACGCGCGTGTGTGGCCTGCCTG
 GCTGCTGCGTAGATTGGCTGGGGTCTGCCCTGAAGGCCTCCAGGACTCTGACTTTCAGCAGTTGGTCC
 AGCCTCGGCTGGTGGACTCCTTCTACTCTGCAGCAACATGGAGGAGAGTTTTGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

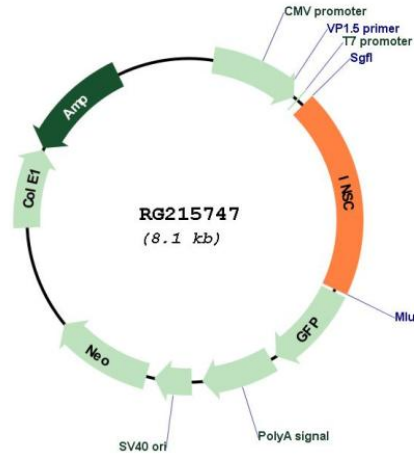
>RG215747 representing NM_001042536
 Red=Cloning site Green=Tags(s)

MMALPGGRHLDVTLPGQRLHLMQVDSVQRWMDLKLMTCECMCVLQAKPISLEEDAQGDILAGGPGP
 GDPLQLLLKRGWVISTELRRIGQKLAQDRWARVHSMVRLTCHARSMVSEYSAVSRNSLKEMGEIEKLLM
 EKCSELSAVTERCLQVENEHVLKSMKACVSETLSMLGQHFQQLLELAL TREVQALVRKIDASDNIYTTES
 TTGNLFSLTQEGAPLCRIIAKEGGVVALFKVCRQDSFRCLYPQALRTLASICVVEEGVHQLKVDGVLCL
 ADILTDNSHSEATRAEAAVVAQVTSPLPVTQHLSSFLESMEEIVTALVKLCQEASSGEVFLASAALA
 NITFFDTMACEMLLQLNAIRVLLLEACSDKQRVDPYTRDQIVTILANMSVLEQCASDIIQENGVQLIMG
 LSEKPRSGTPEVAACERVQQAAVTLARLSRDPDVAREAVRLSCMSRLIELCRSPSERNSSDAVLVACL
 AALRRLAGVCPPEGLQDSDFQQLVQPRLVDSFLLCSNMEESFV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN:	NM_001042536
ORF Size:	1596 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_001042536.1](#), [NP_001036001.1](#)

RefSeq Size: 2894 bp

RefSeq ORF: 1599 bp

Locus ID: 387755

UniProt ID: [Q1MX18](#)

Cytogenetics: 11p15.2

Gene Summary: In *Drosophila*, neuroblasts divide asymmetrically into another neuroblast at the apical side and a smaller ganglion mother cell on the basal side. Cell polarization is precisely regulated by 2 apically localized multiprotein signaling complexes that are tethered by Inscuteable, which regulates their apical localization (Izaki et al., 2006 [PubMed 16458856]).[supplied by OMIM, Mar 2008]