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Product datasheet for RG227981

NELL2 (NM_001145110) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NELL2 (NM_001145110) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NELL2
Synonyms:	NRP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG227981 representing NM_001145110
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTATAAGAAGACTTCTCATTTTAATCCTCAAAATAGGGAGACGATGGACTGAGCTGATCCGCACCA
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AGATGGCTACCATGACAATGGGATGTTTTCACCAAGTGGAGAATCGTGTGAAGATATTGATGAGTGTGGG
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AGACTTGCCTGGACGAAATGAATGTGGTTCGCTTCACCGGGTCCTCTTGGATCAAACATGGCACTGAGTG
TACTCTCTGCCAGTGCAAGAATGGCCACATCTGTTGCTCAGTGGATCCACAGTGCCTTCAGGAACTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG227981 representing NM_001145110
Red=Cloning site Green=Tags(s)

MSIRRLLILILKIGRRWTELIRTMESRVLLRTFCLIFGLGAVWGLGVDPSLQIDVLTELELGESTTGVRQ
VPGLHNGTKAFLFQDTPRSIKASTATAEQFFQKLRNKHEFTILVTLKQTHLNSGVILSIHHLDHRYLELE
SSGHRNEVRLHYRSGSHRPHTEVFPYILADDKWHKLSLAISASHLILHIDCNKIYERVVEKPSTDLPLGT
TFWLGQRNNAHGYFKGIMQDVQLLVMPQGFIAQCPDLNRTCPTCNDFHGLVQKIMELQDILAKTSAKLSR
AEQRMNRLDQCYCERTCTMKGTTYREFESWIDGCKNCTCLNGTIQCETLICPNPDCPLKSALAYVDGKCC
KECKSICQFQGRTYFEGERNTVYSSSGVCVLYECKDQTMKLVESSGCPALDCPESHQITLSHSCCKVCKG
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CKTGYIRIDDYSCTEHDECITNQHNCDENALCFNTVGGHNCVCKPGYTGNGTTCKAFCKDGCRNGGACIA
ANVCACPQGFTGPSCETDIDECSDGFVQCDSRANCINLPGWYHCECRDGYHDNGMFSPSGESCEDIDECG
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DCENPTVDLFCCPECDPRLSSQCLHQNGETLYNSGDTWVQNCQQCRCLQGEVDCWPLPCPDVECEFSILP
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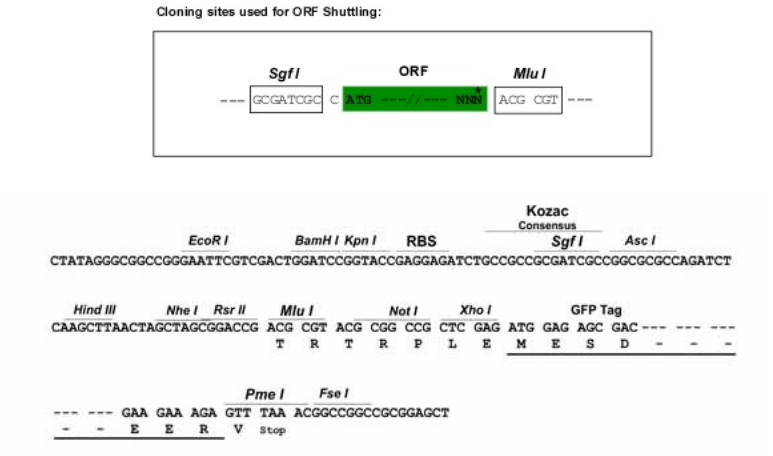
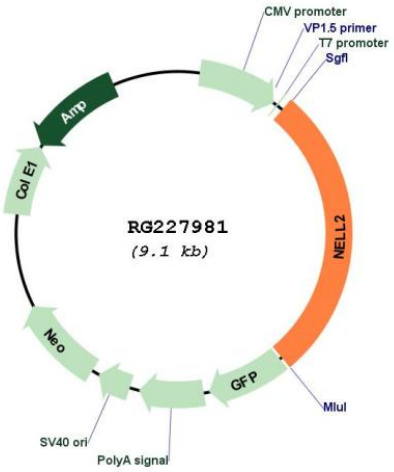
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001145110
ORF Size:	2517 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_001145110.1, NP_001138582.1
RefSeq Size:	3271 bp
RefSeq ORF:	2520 bp
Locus ID:	4753
UniProt ID:	Q99435

Cytogenetics:	12q12
Protein Families:	Secreted Protein, Transmembrane
Gene Summary:	The protein encoded by this gene is a glycoprotein containing several von Willebrand factor C domains and epidermal growth factor (EGF)-like domains. The encoded protein acts as a homotrimer and is found in the cytoplasm. Several variants encoding a few different isoforms exist, and at least one isoform appears to be a secreted protein. Studies in mouse suggest that this protein plays a role in neural cell growth and differentiation as well as in oncogenesis. [provided by RefSeq, Feb 2009]