

Product datasheet for **RG200172**

C12orf41 (KANSL2) (NM_017822) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	C12orf41
Synonyms:	C12orf41; NSL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG200172 representing NM_017822
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGAAGACCAACCCAGGGCCTGTGGGTGAAACACTCCTGTGCCAGCTGAGCTCATATGCTAAGACAG
AGCTGGGGTCTCAGACTCCAGAAAGTAGTCGAGTGAAGCCAGCCGAATACTAGATGAAGACAGCTGGAG
TGATGGGGAGCAGGAACCCATTACTGTGGATCAGACATGGAGAGGTGACCCTGACAGTGAAGCTGATAGC
ATAGACAGTGATCAAGAAGATCCCCATAAATCATGCTGGTGTCTACACAGCAGAAGAAGTGGCCCTGATTA
TGCGTGAAAAGCTAATTCGTTTGCAGTCGTTGTATATTGATCAGTTTAAACGACTTCAGCATCTGCTCAA
GGAGAAGAAGCGCCGATACTTACATAATCGAAAAGTGAACATGAAGCTCTAGGCAGTAGTCTCCTGACT
GGCCCAGAGGGACTTTTGGCCAAAGAACGAGAGAACTTAAAGCGATTAAATGTCTGCGACGATACCGCC
AGCGCTATGGAGTGAAGCCTTACTGCATAGGCAGTTGAAGGAACGAGAATGCTGGCCACAGATGGTGC
TGCCCAACAGGCCCATACCACTCGTTCCAGTCAGAGGTGCTTGGCCTTTGTGGATGATGTTCTGTTTCC
AATCAGTCTCTTCCAATGACCAGACACTGCCTTACCCATATTTGTCAGGATACGAATCAGGTTCTCTTCA
AGTGCTGCCAGGGATCTGAAGAGGTACCCTGCAACAAACCTGTTCTGTAAAGCCTCTCTGAGGATCCCTG
CTGCCCACTGCATTTCCAGTTGCCTCCTCAGATGTATAAGCCCAGCAGGTACTGTCTGTGCCAGACGAT
CTGGAAGCCGCCCCATGGATCTGTACTTGAGTGTCTGCTGAGCTTCAGCCCACTGAGAGTTTACCTCTGG
AGTTCACTGATGACTTGGATGTTGTGGGTGATGGTATGCAAGTGTCTCCTTACCTTTGCTTTTGTATCC
TTCACTAACCCTTGAAGATCATTTAGTCAAAGAAATTGCTGAAGACACAGTGGATATTTGGGCCAGATG
CAGATGGCTGGAGATGGGTGCAGATCCAGGGATCTCGAAATCTGAGAAAGCCTCTGCACCATTTGTCTC
AGAGTGGATTGGCTACTGCAAATGGGAAGCCAGAACCCACTTCTATTAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG200172 representing NM_017822

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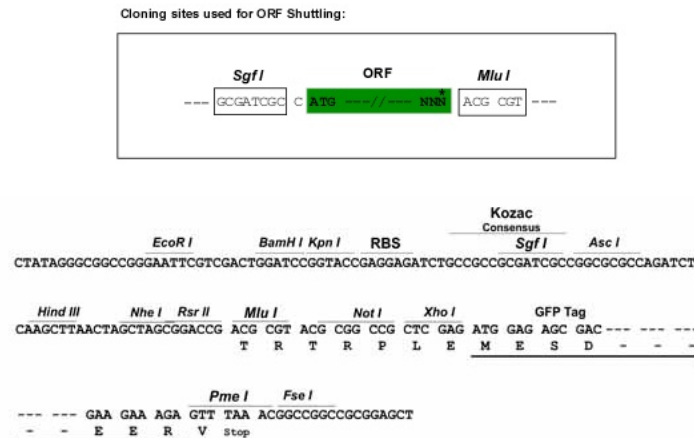
MKKTNP GPVGETLLCQLSSYAKTELGSQTPSSRSEASRI LDEDSWSDGEQEPITVDQ TWRGDPDSEADS
IDSDQEDPLKHAGVYTAEEVALIMREKL IRLQSLYIDQFKRLQHLLKEKKRRYLHNRKVEHEALGSSLLT
GPEGLLAKERENL KRLKCLRRYRQRYGVEALLHRQLKERRMLATDGAAQQAHTTRSSQRCLAFVDDVRCS
NQSLPMTRHCLTHICQDTNQVLKCCQGSSEVPCNKPVVSLSEDPCCPLHFQLPPQMYKPEQVLSVPDD
LEAGPMDLYLSAAELQPTESLPLEFSDDL DVVGDGMQCPPSPLLFDPSTLEDHLVKEIAEDTV DILGQM
QMAGDGCRSQGSRNSEKASAPLSQSGLATANGKPEPTSIS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_017822

ORF Size:

1170 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_017822.2](#), [NP_060292.2](#)

RefSeq Size: 2402 bp

RefSeq ORF: 1479 bp

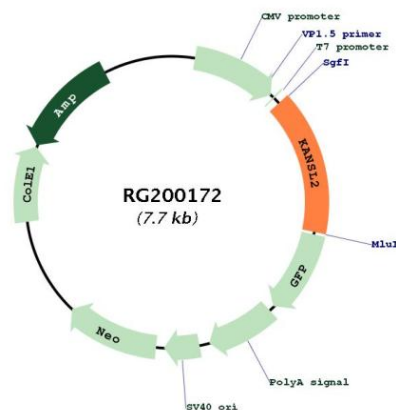
Locus ID: 54934

UniProt ID: [Q9H9L4](#)

Cytogenetics: 12q13.11

Gene Summary: As part of the NSL complex it is involved in acetylation of nucleosomal histone H4 on several lysine residues and therefore may be involved in the regulation of transcription.
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG200172