

Product datasheet for **RG226656**

DSN1 (NM_001145318) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DSN1 (NM_001145318) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: DSN1
Synonyms: C20orf172; dj469A13.2; hKNL-3; KNL3; MIS13
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG226656 representing NM_001145318
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTAAGACTCATGATCATCAATTGGAATCAAGTCTCAGTCTGTGGAAGCGTTTGCTAAAACATCTG
 CCTCCCTGGAGATGAATCAAGGCGTTTCAGAGGAAAGAATTCACCTTGGCTCTAGCCCTAAAAAGGGG
 AAATTGTGATCTCAGCCACCAGGAAAGACTTCAGTCGAAGTCCCTTCATTTGTCTCCTCAAGAACAATCT
 GCCAGTTATCAAGACAGGAGGCAATCCTGGCGGAGCAAGTATGAAAGAAACGAACCGGCGGAAGTCGC
 TGCATCCCATTCACCAGGCATCACAGAGCTCAGCCGGTCTATCAGTGTGATTTAGCAGAAAGCAAACG
 GCTTGGCTGTCTCCTGCTTCCAGTTTCCAGTTCTCTATTAGAACTTGAACCTTTCCTAAGGGCACT
 AAGGGCTTCAGTCTTGAAGTTTATAGCCAAAGCATCTTCTCTTCTGAAGAATTGAAACATTTTGCGAG
 ACGGACTGGAACTGATGGAACCTACAAAAATGTTTTGAAGATTCAAATGGAAAAGCATCAGATTTTTC
 TTTGGAAGCATCTGTGGCTGAGATGAAGGAATACATAACAAAGTTTTCTTTAGAACGTCAGACTTGGGAT
 CAGCTCTTGCTTCACTACCAGCAGGAGGCTAAAGAGATATTGTCCAGAGGATCAACTGAGGCCAAAATTA
 CTGAGGTCAAAGTGAACCTATGACATATCTTGGGTCTTCTCAGAATGAAGTTCTTAATACAAAACCTGA
 CTACCAGAAAATATTACAGAACCAGAGCAAAGTCTTTGACTGTATGGAGTTGGTGATGGATGAACTGCAA
 GGATCAGTGAAACAGCTGCAGGCCTTTATGGATGAAAGTACCCAGTCTCCAGAAGGTGTCAGTACAGC
 TCGGAAAAGAGAAGCATGCAACAATTAGATCCCTCACCAGCTCGAAAACGTTTGAAGCTTCAGCTACAGAA
 CCCACCTGCCATACATGGATCTGGATCTGGATCTTGTCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG226656 representing NM_001145318
Red=Cloning site Green=Tags(s)

MSKTHDHQLESSLSPVEAFAKTSASLEMNQGVSEERIHGSSPKKGGNCDL SHQERLQSKSLHLSPQEQS
 ASYQDRRQSWRRASMKETNRRKSLHPIHQGITELSRISVDLAESKRLGCLLLSSFQFSIQKLEPFLRDT
 KGFSLSEFRKASSLSEELKHFADGLETDTLQKCFEDSNGKASDF SLEASVAEMKEYITKFSLERQTWD
 QLLLHYQQEAKEILSRGSTEAKITEVKVEPMTYLGSSQNEVLNTPDYQKILQNQSKVFDCEMELVMDELQ
 GSVKQLQAFMDESTQCFQKVSVQLGKRSMQQLDPSARKLLKLQLQNPPAIHGSGSGSCQ

TRTRPLE - GFP Tag - V

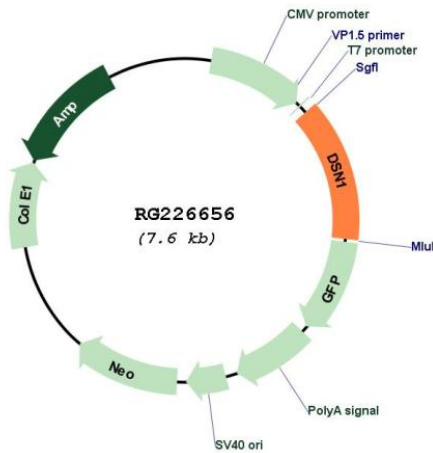
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001145318

ORF Size: 1020 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:	<ol style="list-style-type: none">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_001145318.1 , NP_001138790.1
RefSeq Size:	2200 bp
RefSeq ORF:	1023 bp
Locus ID:	79980
UniProt ID:	Q9H410
Cytogenetics:	20q11.23
Gene Summary:	This gene encodes a kinetochore protein that functions as part of the minichromosome instability-12 centromere complex. The encoded protein is required for proper kinetochore assembly and progression through the cell cycle. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2009]