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Product datasheet for RG221703

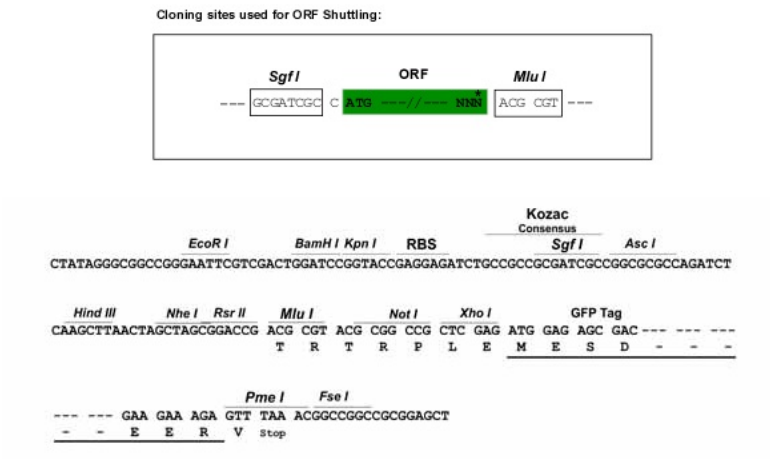
DAND5 (NM_152654) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAND5 (NM_152654) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DAND5
Synonyms:	CER2; CERL2; CKTSF1B3; COCO; CRL2; DANTE; GREM3; SP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221703 representing NM_152654 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCTCCTTGGCCAGCTATCCACTCTTCTGTGCCTGCTTAGCGGGGCCCTGCCTACAGGCTCAGGGAGGC CTGAACCCCAGTCTCCTCGACCTCAGTCCTGGGCTGCAGCCAATCAGACCTGGGCTCTGGGCCCAGGGGC CCTGCCCCCACTGGTGCCAGCTTCTGCCCTTGGGAGCTGGAAGGCCTTCTTGGGCCTGCAGAAAGCCAGG CAGCTGGGGATGGGCAGGCTGCAGCGTGGGCAAGACGAGGTGGCTGCTGTGACTCTGCCGCTGAACCCTC AGGAAGTGATCCAGGGGATGTGTAAGGCTGTGCCCTTCGTTCAGGTGTTCTCCCGGCCCGGCTGCTCAGC CATACGCCTCCGAAATCATCTGTGCTTTGGTCATTGCTCCTCTCTCTACATCCCTGGCTCGGACCCCACC CCACTAGTCCTGTGCAACAGCTGTATGCCTGCTCGCAAGCGTTGGGCACCCGTGGTCCTGTGGTGTCTCA CTGGCAGCTCAGCCTCCCGTCGACGGGTGAAGATATCCACCATGCTGATCGAGGGGTGTCACTGCAGCCC AAAAGCA ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	>RG221703 representing NM_152654 Red=Cloning site Green=Tags(s) MLLGQLSTLLCLLSGALPTGSGRPEPQSPRPQSWAAANQTWALGPGALPPLVPASALGSWKAFLGLQKAR QLGMGRLQRGQDEVAAVTLPLNPQEVIQGMCKAVPFVQVFSRPGCSAIRLRNHLCFGHCSSLYIPGSDPT PLVLCNSCMPARKRWAPVVLWCLTGSSASRRRVKISTMLIEGCHCSPKA TRTRPLE - GFP Tag - V
Restriction Sites:	SgfI-MluI

View online »

Cloning Scheme:



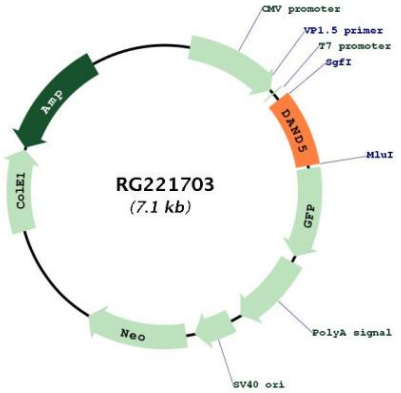
ACCN:	NM_152654
ORF Size:	567 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_152654.2, NP_689867.1
RefSeq Size:	1732 bp
RefSeq ORF:	570 bp
Locus ID:	199699

UniProt ID: Q8N907

Cytogenetics: 19p13.13

Gene Summary: This gene encodes a member of the BMP (bone morphogenic protein) antagonist family. Like BMPs, BMP antagonists contain cystine knots and typically form homo- and heterodimers. The CAN (cerberus and dan) subfamily of BMP antagonists, to which this gene belongs, is characterized by a C-terminal cystine knot with an eight-membered ring. The antagonistic effect of the secreted protein encoded by this gene is likely due to its direct binding to BMP proteins. As an antagonist of BMP, this gene may play a role in regulating organogenesis, body patterning, and tissue differentiation. In mouse, this protein has been shown to bind Nodal and to inhibit the Nodal signaling pathway which patterns left/right body asymmetry. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG221703