

Product datasheet for **RG215775**

DMXL2 (NM_015263) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DMXL2 (NM_015263) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DMXL2
Synonyms:	DEE81; DFNA71; EIEE81; PEPNS; RC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215775 ORF sequence, codon optimized . Due to the complexity of NM_015263, the ORF clone is codon optimized for mammalian Expression. The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCACCTCCATCAGGTCTCACCGGCGTGTGAACCCAGGCGATAATTGCTACAGCGTTGGCTCTGTCC
GAGATGTGCCCTTTACTGCTTATGGCTCTGGATGTGATATTGTGATCTTGGCAAATGATTTCGAGTGTGT
TCAAATATTCCCGGCGCTAAGCATGAAATATTCAGGTGAGTTGTGGAGTGCAGTAATCAGCAAGGC
CGCATCGCAGCCTCATATGGTAACGCGGTGTGCATCTTCGAGCCTTTGGGAATCAATTCTCATAAGCGGA
ATTGTCAACTTAAGTGTCAAGTGGCTGAAAACGGCAATTTTCTGAGCTCCGTGACTTACAACCTCGC
TTGGGACCCACAGGACAACAGACTGCTCACAGCAGCCGACAGTATACAGCTCTGGGCTCCACCCGGAGAT
GACATTCTCGAGGAAGAGGAGGAGATTGACAACACCGTCCCACCGTTCTGAATGACTGGAAGTGTGTGT
GGCAGTGAAGACTAGCGTGTCCGTGCACCTGATGGAATGGTCTCCCGATGGCGAGTCTTGTACTGTC
CGGCAAAGACGACTGTCTGCTCAAGGTGTGGTATCCAATGACTGGATGGAAGTCCATTATCCCGCAG
GACCATCATGAAGTCAAGCGGCGACAGAGTAGTACCCAGTTTTTCATTTCGCTACCTTGTCTACCCACGGG
CTGTGACTGGGTTTTCTGGCGCAAGACCTCTAAGTATATGCCGCGCGGGTCCGTTTGAATGTACTCCT
GACTTCTGTGATGACGGAGTGTGCCGCTGTGGGCGGAGACCCTCTGCCGGAGGATTGCCTTCTGGGC
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TCTGGTGACCCATGCTGAGCTGATGCCGACCAAACCGCAATGCACGAGGTACAGCGGCACATCAGTCAC
CACGCAAATGCTCTTTGTCATTTTCACATCGCAGCTAGTATCAATCCGGCGACCGATATTCCAACGTGC



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TGGTGGAACTGCTTTCAATGTTGACGATGGCAACGGCGGCTTCGTGTTCACTGGCTTAATAATAAGGA
 GTTTCATTTTACATCTTCTACTGAAGTGTTTATGCATCAACTGAGAAAGCTGAGCGATAAGCAGGTGCGAC
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GTCCATATTTGAAACATTGGGGCTGGAGTCATGCAGATTGACATCATCCAGGGCAATCGGCTCTTCTCC
TGTGGTGCAGATGGCACGCTGAAAACCAGGGTTTTGCCAATGCTTTAACATCCCTAACAGAATTCTTG
ACATTCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG215775 representing NM_015263
 Red=Cloning site Green=Tags(s)

MHLHQVL TGAVNPGDNCYSVGSVGDVFPFTAYGSGCDIVILANDFECVQIIPGAKHGNIQVSCVECSNQGG
 RIAASYGNAVCIFEPLGINSHKRNQCQLKQWLKTGQFFLSSVTYNLAWDPQDNRLLTATDSIQLWAPPGD
 DILEEEEEIDNTVPPVLDNDWKCVMQCKTSVSVHLMWSPDGEYFATAGKDDCLLKVVWYPMTGWKSIIIPQ
 DHHEVKRRQSSSTQFSFVYLAHPRAVTGFWRKTSKYMPRGSVCNVLLTSDCHDGVCRLEWETLLPEDCLLG
 EQICETTSSIASL SHAGRHKDRIQHALETIHHLKNLKRGQRSSVLTVAELMPDQTAMHEVQRHISH
 HANALCHFIIAASINPATDIPNVLVGTAFNVDDGNGGFVVHWLNNKEFHFTSSTEVEFMHQLRKLSDKQVD
 HENDDADREDEEHSQEDRERGLHMKLDHDLSDRESEAGTGSSEHEDGEREGSPRTYSRSLVPMPLPTVL
 LDRKIETLLTEWKNPDMLFTIHPVDGTFVWHVKYLDEYNPGIFRQVQVSFSSRIPVAFPSGDASSLSK
 NIMMYACINATKDSHTLLHQEGMSVSGSPHGSQPHSRSHSTHMNILAPTVMMSKIDGSLNQWAVTFAD
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 GSSKQPLRNAATRTFHPNAIYSELILWRVDPGIPLSYTGGSVSELARINSLHTSAF SNVAVLPTLIPSYC
 LGTYCNSASACFVASDGKRLRLYQAVVDARKLLDELSDPESSKLGVEFVNIVSQQSTARPGCIIELDAIT
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 EELINMIPAIQRGDPQWSEL RAMGIGWVVRNINTLRRCIEKVAKASFQRNNDALDAALFYSMKKAVVW
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 KEDDEHQV IIKSCNPVAFS FYNL RTHPLLIRRNLASPEGLATLGLKTEKNFVDKINLIERKLF T TAN
 AHFKVGC PVLAL EVL SKIPKVTKTSAL SAKKDQPDFISHRMDDVPSHSHKALSDGNGSSGIEWSNVTSSQY
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 SYSASQVHPPSSLPWLTGTSTGASVLMKRNLHNVKRM TSHPVHQQYL TGAQDGSVRFWTRPQQLVC
 FRQAGNARVTRL YFNSQGNKCGVADGEGFLSIWQVNQTASNPKPYMSWQCHSKATSDFAFITSSSLVATS
 GHSNDNRNVCLWDTLISPGNSL IHGFTCHDHGATVLQYAPKQQLLISGGRKGHVCIFDIRQRLIHTFQA
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 CGADGTLKTRVLPNAFNIPNRILDIL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

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:	<u>NM_015263.1</u> , <u>NP_056078.1</u>
RefSeq Size:	10596 bp
RefSeq ORF:	9111 bp
Locus ID:	23312
UniProt ID:	<u>Q8TDJ6</u>
Cytogenetics:	15q21.2
Gene Summary:	This gene encodes a protein with 12 WD domains. Proteins with WD domains are involved in many functions including participation in signal transduction pathways. Participation of the encoded protein in regulation of the Notch signaling pathway has been demonstrated in vitro using several human cell lines (PMID:20810660). A gene encoding a similar protein is located on chromosome 5. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]