

Product datasheet for **RG219658**

DPP3 (NM_005700) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPP3 (NM_005700) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DPP3
Synonyms:	DPPIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG219658 representing NM_005700
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGACACCCAGTACATCTGCCCAATGACATCGGCGTGTCTAGCCTGGACTGCCGTGAGGCCCTTCC
 GCCTGCTGTACCCACAGAGCGCCTCTATGCCTACCACCTGTCCCGTGCCGCCTGGTACGGAGGCCCTGGC
 TGTGCTGCTTCAGACCTCCCCTGAGGCCCCCTACATCTATGCTCTGCTCAGCCGCCTCTTCCGCGCCAG
 GACCCCGACAGCTGCGCCAACATGCCCTGGTGAAGGCCTTACCGAGGAGGAGTATCAGGCGTTCCTGG
 TCTATGCCGCGGGTGTACTCCAACATGGGCACTACAAGTCTTTGGTGACACCAAGTTTGTCCCAA
 CTTGCCAAAGGAAAAGCTGGAACGGGTGATCCTAGGGAGTGAGGCTGCTCAGCAGACCCAGAAGAAGTC
 AGGGCCCTCTGCCAGACCTGCGGGGAGCTTATGTTCTCTCTGGAGCCAAGGCTTCGACACCTCGGACTGG
 GGAAGGAGGAATCACCACCTATTTCTCTGGGAATTGTACCATGGAAGATGCCAAATGGCCAGGACTT
 TCTGGACTCACAGAACCTCAGTGCTACAACACCCGGCTCTTCAAAGAGGTCGATGGAGAAGGGAAGCCC
 TACTACGAGGTGCGGCTGGCTTCTGTGCTTGGCTCAGAGCCTTCCTGGACTCTGAGGTGACTTCCAAGC
 TGAAGAGCTATGAATCCGGGGAAGCCCTTCCAGGTGACCCGGGGGACTACGCGCCCATCTCCAGAA
 GGTGGTGGAGCAGCTGGAGAAAGCCAAGGCCTATGCAGCCAACAGCCACCAGGGGAGATGCTGGCCAG
 TATATAGAGAGCTTACCCAGGGCTCCATCGAGGCCACAAGAGGGGCTCCCGCTTCTGGATCCAGGACA
 AAGGCCCATCGTGGAGAGTTACATCGGGTTCATCGAGAGCTACCGGACCCCTTTGGTTCCCGAGGAGA
 ATTTGAAGTTTCGTAGCTGTGGTGAACAAGGCCATGAGTGCCAAGTTTGAGCGGCTGGTGGCGAGCGCA
 GAGCAGCTGTGAAGGAGCTGCCCTGGCCCCAACCTTTGAGAAGGACAAGTTCCACCCCTGACTTCA
 CCTCCCTGGATGTTCTCACCTTCGCTGGCTCCGGCATCCCTGCCGGCATCAACATCCCCAACTACGATGA
 TCTGAGGCAGACGGAAGGCTTTAAGAACGTGTCGCTGGGGAATGTGCTGGCTGTGGCCTACGCCACGCAG
 CGGGAGAAGCTTACCTTTCTGGAGGAGGATGACAAGGACCTGTACATCCTCTGGAAGGGGCCCTCCTTCG
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 AGCATTCAACTTTGACCAGGAAACAGTGATCAACCCAGAGACGGGCGAGCAGATTAGAGCTGGTATCGG
 AGCGGGGAGACCTGGGATAGCAAGTTCAGCACCATCGCTCCAGCTACGAAGAGTGCCGGGCTGAGAGCG
 TGGGTCTACCTCTGTCTCCACCCGAAGTGTGGAGATCTTTGGCTTTGAGGGGGCTGATGCGGAGGA
 CGTGATCTACGTGAAGTGGTCAACATGGTTCGGGCCGGGCTGCTCGCTCTGGAGTTCTACACACCTGAG
 GCCTTCAACTGGCGACAGGCCATATGCAGGCCGGTTTGTGATCCTGAGAGTCTTGTGGAGGCTGGCG
 AGGGACTCGTTACCATCACTCCACACAGGCTCCGATGGGCGCCAGATGCCCGGGTCCGCTCGACCG
 CAGCAAGATCCGGTCTGTGGGCAAGCCTGCTCTAGAGCGCTTCTGCGGAGACTTCAGGTGCTGAAGTCC
 ACAGGGGATGTGGCCGGAGGGCGGGCCCTGTACGAGGGGTATGCAACGGTCACTGATGCGCCCCCGAGT
 GCTTCTCACCCTCAGGGACAGGTGCTGCTGCGTAAGGAATCTCGGAAGCTCATTGTTACGCCAACAC
 TCGCCTTGAAGGCTCAGACGTGCAGTTCTGGAATACGAGGCGTCAGCTGCTGGCCTCATCCGATCCTTC
 TCTGAGCGTTTCCAGAGGATGGACCCGAGTTGGAGGAGATCCTCACACAGCTGGCCACAGCCGATGCC
 GATTCTGGAAGGGCCCCAGTGAGGCCCATCTGGCCAAGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219658 representing NM_005700
 Red=Cloning site Green=Tags(s)

MADTQYILPNDIGVSSLDCREAFRLLSPTERLYAYHLSRAAWYGGGLAVLLQTSPEAPYIYALLSRLFRAQ
 DPDQLRQHALAEGLTEEEYQAFVYAAGVYSNMGNYSFGDTKFVPLPKKLERVILGSEAAQQHPPEEV
 RGLWQTCGELMFSLERLRHLGLGKEGITYYSGNCTMEDAKLAQDFLDSQNL SAYNTRLFKEVDGEGKP
 YIEVRLASVLGSEPSLDSEVTSKLSYEFGRSPFQVTRGDYAPILQKVVEQLEKAKAYAANSHQGMLAQ
 YIESFTQGSIEAHKGRSRFWIQDKGPIVEYIGFIESYRDPFGSRGEFEGFVAVVKNKAMSAKFERLVASA
 EQLLKELPWPPTFEKDKFLTPDFSLDVLTFAGSGIPAGINIPNYDDLRLQTEGFKNVSLGNVLAVAYATQ
 REKLTFLLEEDDKDLYILWKGPSFDVQVGLHELLGHGSGKLFVQDEKGFNFQDETVINPETGEQIQSWYR
 SGETWDSKFSSTIASSYEECRAESVGLYLCLHPQVLEIFGFEGADAEDVIYVNWLNVMVRAGLLALEFYTPE
 AFNWRQAHMQARFVILRVLLEAGEGLVTITPTTGS DGRPDARVRLDRSKIRSVGKPALERFLRRLQVLKS
 TGDVAGGRALYEGYATVDAPPECFLTRDVTLLRKESRKLIVQPNTRLEGS DVQLLEYEASAAGLIRSF
 SERFPEDGPELEEILTQLATADARFWKGPSEAPSGQA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005700

ORF Size: 2211 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_005700.2](#), [NP_005691.2](#)

RefSeq Size: 2684 bp

RefSeq ORF: 2214 bp

Locus ID: 10072

UniProt ID: [Q9NY33](#)

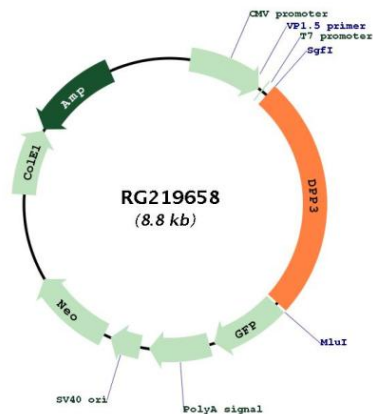
Cytogenetics: 11q13.2

Domains: Peptidase_M49

Protein Families: Druggable Genome, Protease

Gene Summary: This gene encodes a protein that is a member of the M49 family of metallopeptidases. This cytoplasmic protein binds a single zinc ion with its zinc-binding motif (HELLGH) and has post-proline dipeptidyl aminopeptidase activity, cleaving Xaa-Pro dipeptides from the N-termini of proteins. Increased activity of this protein is associated with endometrial and ovarian cancers. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Feb 2012]

Product images:



Circular map for RG219658