*m*Wnt-10A VersaClone cDNA

Catalog Number: RDC3726

Specifications:

Gene:	*m*Wnt10a
Accession:	NP_033544.1
Insert size:	1267bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

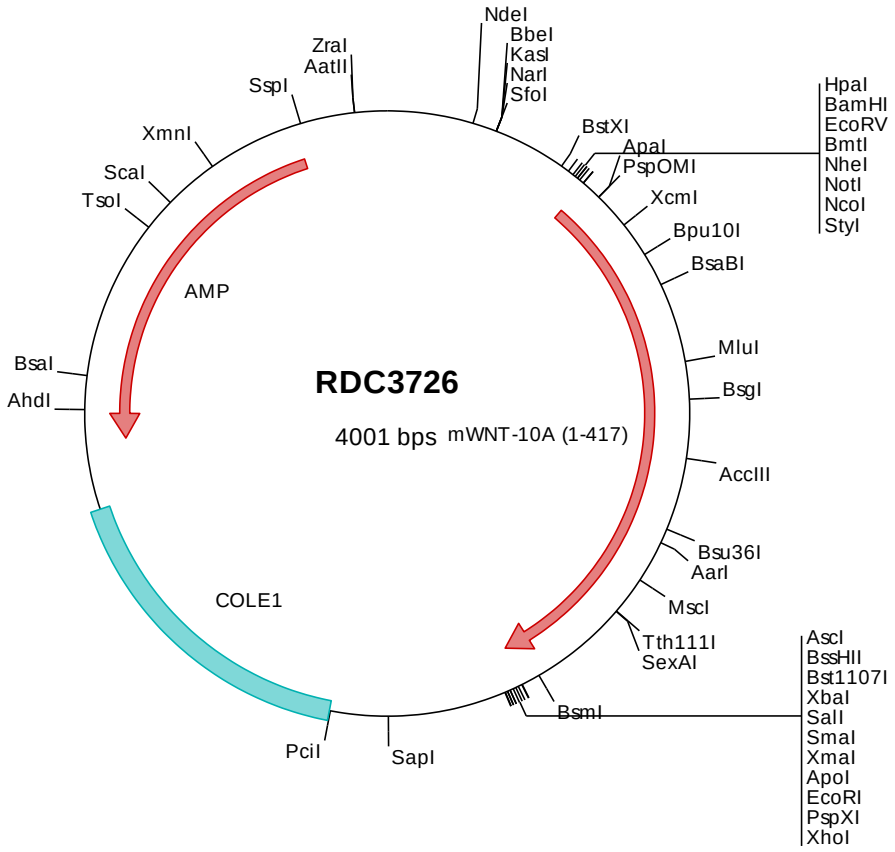
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*m*Wnt-10A cDNA Plasmid

Wnt10a wingless-type MMTV integration site family, member 10A [*Mus musculus* (house mouse)]

Summary:

Wnt10a is predicted to enable cytokine activity and frizzled binding activity. It acts upstream of or within neural crest cell differentiation, positive regulation of gene expression, and regulation of odontogenesis of dentin-containing tooth. Wnt10a is predicted to be located in the extracellular region and active in extracellular space. It is expressed in several structures, including alimentary system, brain, genitourinary system, integumental system, and sensory organ. Human ortholog(s) of Wnt10a are implicated in Schopf-Schulz-Passarge syndrome, ectodermal dysplasia, and tooth agenesis. It is orthologous to human WNT10A (Wnt family member 10A).



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

bio-techne®

R&D SYSTEMS

> RDC3726 Plasmid DNA Sequence

```
   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgggcagcg cccaccctcg cccctggctg cggctcccac aagggcccca
 501  gccgcggcct gagttctggg cgctcctgtt cttcctactg ctgctggctg ccgctgtgcc caggtcagca cccaacgaca tcctgggcct ccgcctaccc
 601  ccagagcccg tgctcaacgc caacacagtg tgcctgacat tgcccggcct gagccggcgg cagatggagg tgtgtgtgcg tcaccctgac gtggccgcct
 701  ctgctatcca gggcatccag atcgccatcc atgagtgcca gcatcagttc cgggaccagc gctggaactg ctccagcctg gagactcgga acaaagtccc
 801  ctacgagagc cccatcttca gccgaggttt tcgagagagt gctttcgcct acgccatagc agctgccggg gtggtgcacg cagtgtccaa cgcgtgcgct
 901  ctgggtaaac tgaaggcttg cggttgcgac gcctccagac gtggggacga agaagctttc cgtcggaagc tgcaccgctt gcagctggac gcgctgcagc
1001  gcggaaaggg cttgagccac ggggtccctg aacacccggc catacttcct gccagcccag gtctgcagga ctcctgggag tggggtggct gcagtccgga
1101  tgtgggcttc ggagaacgct tctctaagga ctttctggac tcccgagagc ctcacagaga catccatgct cgaatgagac tccacaacaa ccgtgtgggc
1201  cggcaggcgg tgatggagaa catgcggcgt aagtgcaaat gccacggcac ctcaggcagc tgccagctca agacctgctg gcaggtgacg cctgagttcc
1301  gcacagtagg ggcgctgctg cgcaaccgct tccaccgcgc cacgctcatc cggccgcaca accgcaacgg tggccagctg gagcccggcc ccgcgggagc
1401  accctcgcca gcaccgggca ctccagggct gcgccgcagg gccagccact ccgacctggt ctactttgag aaatctcccg acttctgtga gcgcgagccg
1501  cgcctggact cggcaggcac tgtgggccgc ctgtgcaata agagcagcac gggtcccgat ggctgcggca gcatgtgctg tggccgcggc cacaacattc
1601  tgcgccagac gcgcagcgag cgctgccact gccggttcca ctggtgctgc ttcgtggtct gcgaagaatg ccgcatcacc gagtgggtca gcgtctgcaa
1701  gtaaaggcgc gccagtatac tctagagtcg acacccgggg aattcctcga gcgctcgtct ctagcttggc gtaatcatgg tcatagctgt ttcctgtgtg
1801  aaattgttat ccgctcacaa ttccacacaa catacgagcc ggaagcataa agtgtaaagc ctggggtgcc taatgagtga gctaactcac attaattgcg
1901  ttgcgctcac tgcccgcttt ccagtcggga aacctgtcgt gccagctgca ttaatgaatc ggccaacgcg cggggagagg cggtttgcgt attgggcgct
2001  cttccgcttc ctcgctcact gactcgctgc gctcggtcgt tcggctgcgg cgagcggtat cagctcactc aaaggcggta atacggttat ccacagaatc
2101  aggggataac gcaggaaaga acatgtgagc aaaaggccag caaaaggcca ggaaccgtaa aaaggccgcg ttgctggcgt ttttccatag gctccgcccc
2201  cctgacgagc atcacaaaaa tcgacgctca agtcagaggt ggcgaaaccc gacaggacta taaagatacc aggcgtttcc ccctggaagc tccctcgtgc
2301  gctctcctgt tccgaccctg ccgcttaccg gatacctgtc cgcctttctc ccttcgggaa gcgtggcgct ttctcaatgc tcacgctgta ggtatctcag
2401  ttcggtgtag gtcgttcgct ccaagctggg ctgtgtgcac gaaccccccg ttcagcccga ccgctgcgcc ttatccggta actatcgtct tgagtccaac
2501  ccggtaagac acgacttatc gccactggca gcagccactg gtaacaggat tagcagagcg aggtatgtag gcggtgctac agagttcttg aagtggtggc
2601  ctaactacgg ctacactaga aggacagtat ttggtatctg cgctctgctg aagccagtta ccttcggaaa aagagttggt agctcttgat ccggcaaaca
2701  aaccaccgct ggtagcggtg gttttttttg ttgcaagcag cagattacgc gcagaaaaaa aggatctcaa gaagatcctt tgatcttttc tacggggtct
2801  gacgctcagt ggaacgaaaa ctcacgttaa gggattttgg tcatgagatt atcaaaaagg atcttcacct agatcctttt aaattaaaaa tgaagtttta
2901  aatcaatcta aagtatatat gagtaaactt ggtctgacag ttaccaatgc ttaatcagtg aggcacctat ctcagcgatc tgtctatttc gttcatccat
3001  agttgcctga ctccccgtcg tgtagataac tacgatacgg gagggcttac catctggccc cagtgctgca atgataccgc gagacccacg ctcaccggct
3101  ccagatttat cagcaataaa ccagccagcc ggaagggccg agcgcagaag tggtcctgca actttatccg cctccatcca gtctattaat tgttgccggg
3201  aagctagagt aagtagttcg ccagttaata gtttgcgcaa cgttgttgcc attgctacag gcatcgtggt gtcacgctcg tcgtttggta tggcttcatt
3301  cagctccggt tcccaacgat caaggcgagt tacatgatcc cccatgttgt gcaaaaaagc ggttagctcc ttcggtcctc cgatcgttgt cagaagtaag
3401  ttggccgcag tgttatcact catggttatg gcagcactgc ataattctct tactgtcatg ccatccgtaa gatgcttttc tgtgactggt gagtactcaa
3501  ccaagtcatt ctgagaatag tgtatgcggc gaccgagttg ctcttgcccg gcgtcaatac gggataatac cgcgccacat agcagaactt taaaagtgct
3601  catcattgga aaacgttctt cggggcgaaa actctcaagg atcttaccgc tgttgagatc cagttcgatg taacccactc gtgcacccaa ctgatcttca
3701  gcatctttta ctttcaccag cgtttctggg tgagcaaaaa caggaaggca aaatgccgca aaaaagggaa taagggcgac acggaaatgt tgaatactca
3801  tactcttcct ttttcaatat tattgaagca tttatcaggg ttattgtctc atgagcggat acatatttga atgtatttag aaaaataaac aaatagggggt
3901  tccgcgcaca tttccccgaa aagtgccacc tgacgtctaa gaaaccatta ttatcatgac attaacctat aaaaataggc gtatcacgag gccctttcgt
4001  c
```

> RDC3726 Translated Insert Sequence

```
   1  mgsahprpwl rlpqgpqprp efwallffll llaaavprsa pndilglrlp pepvlnantv cltlpglsrr qmevcvrhpd vaasaiqgiq iaihecqhqf
 101  rdqrwncssl etrnkvpyes pifsrgfres afayaiaaag vvhavsnaca lgklkacgcd asrrgdeeaf rrklhrlqld alqrgkglsh gvpehpailp
 201  aspglqdswe wggcspdvgf gerfskdfld srephrdiha rmrlhnnrvg rqavmenmrr kckchgtsgs cqlktcwqvt pefrtvgall rnrfhratli
 301  rphnrnggql epgpagapsp apgtpglrrr ashsdlvyfe kspdfcerep rldsagtvgr lcnksstgpd gcgsmccgrg hnilrqtrse rchcrfhwcc
 401  fvvceecrit ewvsvck
```