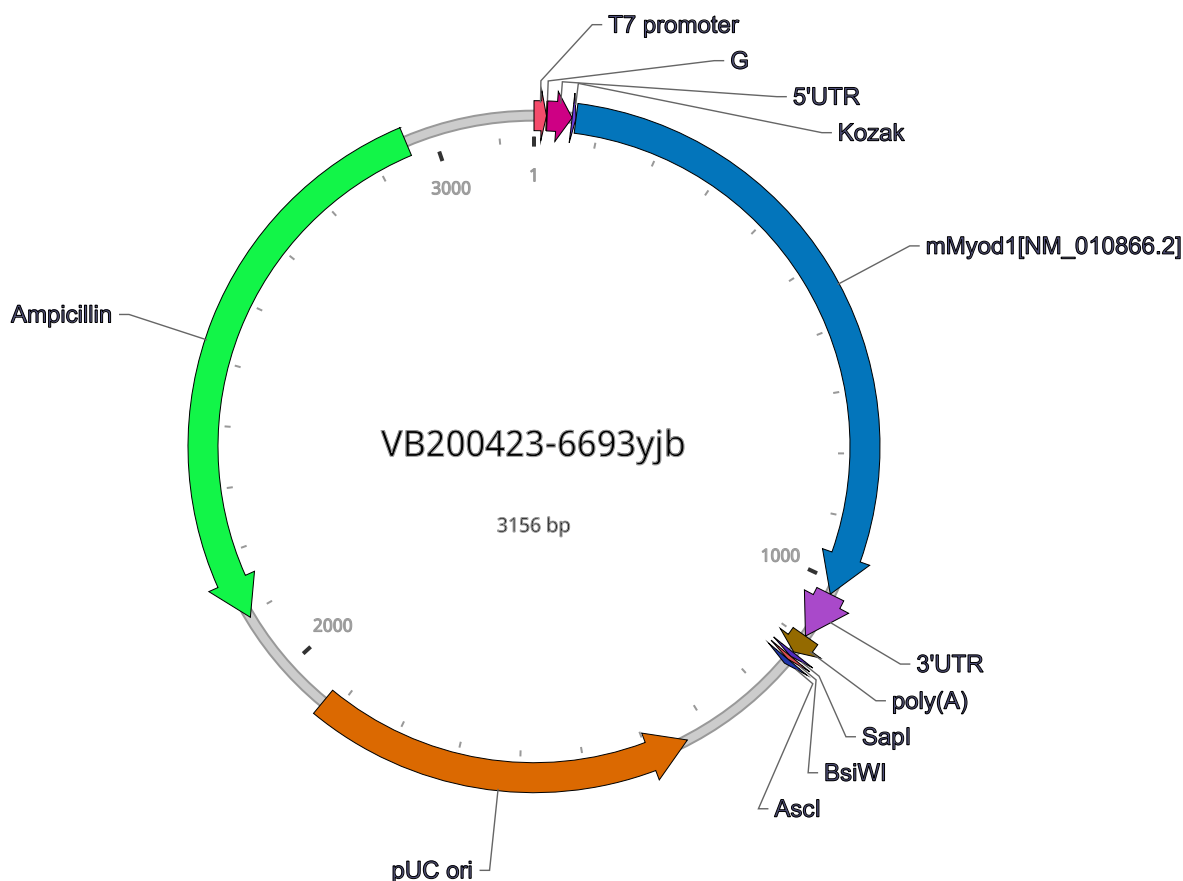


## Vector Summary

Vector ID	VB200423-6693yjb
Vector Name	pT7[mRNA]-5'UTR:mMyod1[NM_010866.2]: Hba-a1_3'UTR
Vector Size	3156 bp
Vector Type	In Vitro Transcription Vector (for mRNA)
Plasmid Copy Number	High
Antibiotic Resistance	Ampicillin
Cloning Host	VB UltraStable (or alternative strain)

## Vector Map



## Vector Components

Name	Position	Size (bp)	Type	Description	Application notes
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Name	Position	Size (bp)	Type	Description	Application notes
T7 promoter	■ 1-19	19	Promoter	T7 promoter	Drives high-level transcription of downstream gene in E. coli host cells that express T7 RNA polymerase; can also be used for in vitro transcription.
G	■ 20-20	1	misc_feature	None	None
5'UTR	■ 21-58	38	misc_feature	None	None
Kozak	■ 59-64	6	misc_feature	None	Facilitates translation initiation of ATG start codon downstream of the Kozak sequence.
mMyod1[NM_010866.2]	■ 65-1021	957	Transcribed_Seq	None	None
3'UTR	■ 1022-1095	74	misc_feature	None	None
poly(A)	■ 1096-1125	30	Miscellaneous	Polyadenylation	Allows to stability of mRNA.
SapI	■ 1127-1133	7	Miscellaneous	SapI restriction site	Allows linearization of vector.
BsiWI	■ 1134-1139	6	Miscellaneous	BsiWI restriction site	Allows linearization of vector.
AscI	■ 1140-1147	8	Miscellaneous	AscI restriction site	Allows linearization of vector.
pUC ori	■ complement (1337-1925)	589	Rep_origin	pUC origin of replication	Facilitates plasmid replication in E. coli; regulates high-copy plasmid number (500-700).
Ampicillin	■ complement (2096-2956)	861	CDS	Ampicillin resistance gene	Allows E. coli to be resistant to ampicillin.

**Note:** Components added by user are listed in **bold red** text.

## Vector Sequence

```

1  TAATACGACT  CACTATAGGG  AAATAAGAGA  GAAAAGAAGA  GTAAGAAGAA  ATATAAGAGC  CACCATGGAG  CTTCTATCGC
81  CGCCACTCCG  GGACATAGAC  TTGACAGGCC  CCGACGGCTC  TCTCTGCTCC  TTTGAGACAG  CAGACGACTT  CTATGATGAC
161  CCGTGTTTCG  ACTCACCAGA  CCTGCGCTTT  TTTGAGGACC  TGGACCCGCG  CCTGGTGCAC  ATGGGAGCCC  TCCTGAAACC
241  GGAGGAGCAC  GCACACTTCC  CTA CTGCGGT  GCACCCAGGC  CCAGGCGCTC  GTGAGGATGA  GCATGTGCGC  GCGCCAGCG
321  GGCACCACCA  GCGGGGTCGC  TGCTTGCTGT  GGGCCTGCAA  GGCGTGCAAG  CGCAAGACCA  CCAACGCTGA  TCGCCGCAAG
401  GCCGCCACCA  TGC GCGAGCG  CCGCCGCTG  AGCAAAGTGA  ATGAGGCCCT  CGAGACGCTC  AAGCGCTGCA  CGTCCAGCAA
481  CCCGAACCAG  CGGCTACCCA  AGGTGGAGAT  CCTGCGCAAC  GCCATCCGCT  ACATCGAAGG  TCTGCAGGCT  CTGCTGCGCG
561  ACCAGGACGC  CGCGCCCCCT  GCGCCGCTG  CCTTCTACGC  ACCTGGACCG  CTGCCCCAG  GCCGTGGCAG  CGAGCACTAC
641  AGTGCGGACT  CAGATGCATC  CAGCCCGCGC  TCCAAC TGCT  CTGATGGCAT  GATGGATTAC  AGCGGCCCCC  CAAGCGGCCC
721  CCGGCGGCAG  AATGGCTACG  ACACCGCCTA  CTACAGTGAG  GCGGCGCGCG  AGTCCAGGCC  AGGGAAGAGT  GCGGCTGTGT
801  CGAGCCTCGA  CTGCTGTGCC  AGCATAGTGG  AGCGCATCTC  CACAGACAGC  CCCGCTGCGC  CTGCGCTGCT  TTTGGCAGAT
881  GCACCACCAG  AGTCGCTTCC  GGGTCCGCCA  GAGGGGGCAT  CCCTAAGCGA  CACAGAACAG  GGAACCCAGA  CCCCCTCTCC
961  CGACGCCGCC  CCTCAGTGTC  CTGCAGGCTC  AAACCCCAAT  GCGATTTATC  AGGTGCTTTG  AGTGCCTTTC  TCGGGGGCTT
1041  GCCTTCTGGC  CATGCCCTTC  TTCTCTCCCT  TGCACCTGTA  CCTCTTGGTC  TTTGAAAAAA  AAAAAA AAAA
1121  AAAAAATGAAG  AGCCGTACGG  GCGCGCCTAG  GCGCGATTCC  GCTTCTCTCG  TCACTGACTC  GCTGCGCTCG  GTCGTTCCGC
1201  TGC GCGAGC  GGTATCAGCT  CACTCAAAGG  CGGTAATACG  GTTATCCACA  GAATCAGGGG  ATAACGCAGG  AAAGAACATG
1281  TGAGCAAAAG  GCCAGCAAAA  GGCCAGGAAC  CGTAAAAAGG  CCGCGTTGCT  GCGGTTTTTC  CATAGGCTCC  GCCCCCTGA
1361  CGAGCATCAC  AAAAAATCGAC  GCTCAAGTCA  GAGGTGGCGA  AACCCGACAG  GACTATAAAG  ATACCAGGCG  TTTCCCCCTG
1441  GAAGTCCCTT  CGTGCGCTCT  CCTGTTCCGA  CCCTGCCGCT  TACCGGATAC  CTGTCCGCCT  TTCTCCCTTC  GGGAAAGCGTG
1521  GCGCTTTCTC  ATAGCTCACG  CTGTAGGTAT  CTCAGTTCGG  TGTAGGTCGT  TCGCTCCAAG  CTGGGCTGTG  TGCACGAACC
1601  CCCC GTTCAG  CCCGACCGCT  GCGCCTTATC  CGGTAAC TAT  CGTCTTGAGT  CCAACCCGGT  AAGACACGAC  TTATCGCCAC
1681  TGGCAGCAGC  CACTGGTAAC  AGGATTAGCA  GAGCGAGGTA  TGTAGGCGGT  GCTACAGAGT  TCTTGAAGTG  GTGGCCTAAC
1761  TACGCTACA  CTAGAAGAAC  AGTATTTGGT  ATCTGCGCTC  TGCTGAAGCC  AGTTACCTTC  GGAAAAAGAG  TTGGTAGCTC
1841  TTGATCCGGC  AAACAAACCA  CCGCTGGTAG  CCGTGGTTTT  TTTGTTTGCA  AGCAGCAGAT  TACGCGCAGA  AAAAAAGGAT
1921  CTCAAGAAGA  TCCTTTGATC  TTTTCTACGG  GGTCTGACGC  TCAGTGGAAC  GAAAAC TCAC  GTTAAGGGAT  TTTGGTCATG
2001  AGATTATCAA  AAAGGATCTT  CACCTAGATC  CTTTAAAT  AAAAAATGAAG  TTTTAAATCA  ATCTAAAGTA  TATATGAGTA
2081  AACTTGGTCT  GACAGTTACC  AATGCTTAAT  CAGTGAGGCA  CCTATCTCAG  CGATCTGTCT  ATTTGCTTCA  TCCATAGTTG
2161  CCTGACTCCC  CGTCGTGTAG  ATAAC TACGA  TACGGGAGGG  CTTACCATCT  GGCCCCAGTG  CTGCAATGAT  ACCGCGAGAT
2241  CCACGCTCAC  CGGCTCCAGA  TTTATCAGCA  ATAAACCAGC  CAGCCGGAAG  GGCCGAGCGC  AGAAGTG GTC  CTGCAACTTT
2321  ATCCGCCTCC  ATCCAGTCTA  TTAATTGTTG  CCGGAAGCT  AGAGTAAGTA  GTTCGCCAGT  TAATAGTTTG  CGCAACGTTG
2401  TTGCCATTGC  TACAGGCATC  GTGGTGTCAC  GCTCGTCGTT  TGGTATGGCT  TCATT CAGCT  CCGGTTCCCA  ACGATCAAGG
2481  CGAGTTACAT  GATCCCCCAT  GTTGTGCAAA  AAAGCGGTTA  GCTCCTTCGG  TCCTCCGATC  GTTGT CAGAA  GTAAGTTGGC
2561  CGCAGTGTTA  TCACTCATGG  TTATGGCAGC  ACTGCATAAT  TCTCTTACTG  TCATGCCATC  CGTAAGATGC  TTTTCTGTGA
2641  CTGGTGAGTA  CTCAACCAAG  TCATTCTGAG  AATAGTGTAT  GCGGCGACCG  AGTTGCTCTT  GCCCGGCGTC  AATACGGGAT
2721  AATACCGCGC  CACATAGCAG  AACTTTAAAA  GTGCTCATCA  TTGGA AAACG  TTCTTCGGGG  CGAAAACTCT  CAAGGATCTT
2801  ACCGCTGTTG  AGATCCAGTT  CGATGTAAAC  CACTCGTGCA  CCCAACTGAT  CTTCAGCATC  TTTTACTTTC  ACCAGCGTTT
2881  CTGGGTGAGC  AAAAAACAGGA  AGGCAAAATG  CCGCAAAAAA  GGAATAAGG  GCGACACGGA  AATGTTGAAT  ACTCATCTC
2961  TTCCTTTTTT  AATATTATTG  AAGCATTTAT  CAGGGTTATT  GTCTCATGAG  CGGATACATA  TTTGAATGTA  TTTAGAAAAA
3041  TAAACAAATA  GGGGTTCCGC  GCACATTTCC  CCGAAAAGTG  CCACCTGACG  TCTAAGAAAC  CATTATTATC  ATGACATTAA
3121  CCTATAAAAA  TAGGCGTATC  ACGAGGCCCT  TTCGTC

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