NCBI Multiple Sequence Alignment Viewer, Version 1.22.0 Sequence ID Start Alignment End Organism 225 Query\_94712 ABJ97319.1 225 Expression vector pAct2.. AAM54544.1 225 synthetic construct 225 synthetic construct BAD52341.1 Cloning vector pGBT-R14 AEA29852.1 BAR90704.1 152 374 Moss transformation vec. 225 AAV52170.1 synthetic construct 225 ANZ72461.1 synthetic construct ACB70967.1 Cloning vector L087 RRI. 223 Synthetic plasmid pPoly. APA32034.1 (+) 221 Cloning vector pSCT32 ARN18288. AAV65051.1 synthetic construct ACH81570.1 Cloning vector pDM131 Synthetic plasmid ptevF APA32011.1 Cloning vector pPV505 ANB62408.1 224 Cloning vector pDM312 ACH81572.1 225 synthetic construct AAV52171.1 12 AFK76473.1 synthetic construct Cloning vector pHal2-FA. 607 QPO14560.1 Discosoma sp. LW-2004 AAV65486.1 2 Vector SCR-RFP UTM74984.1 12 WP\_105812643.1 (+) 234 Mycobacterium tubercul... 10 742 ALB07222.1 synthetic construct (+) AAV65487.1 2 Discosoma sp. LW-2004 (+) BDT06275.1 Expression vector YHp2. 22 ADF31908.<sup>-</sup> Expression vector pTol.. (+) 12 ABJ97322.1 Expression vector pAct.. QSL83322.1 12 230 synthetic construct (+) 58 N-peptide-mCherry expr. AIR09511.1 (+) 17 AMK49141.1 Cloning vector pUASTat. (+) Cloning vector pB-tetO2. QQM12952.1 16 (+) QKN22543.1 12 Cloning vector pUAS\_N... (+) synthetic construct AKH87425.1 16 230 BDS48413.1 12 Expression vector YHp1 (+) WP\_079864013. 13 231 Acinetobacter baumannii (+) 38 AGD93422.1 Cloning vector pBCSM. (+) Binary vector pCAMBIA AKC88565.′ 12 (+) Binary vector pYBA-1138 AHJ09762.1 12 (+) AIR09513.1 120 U1Ap-mCherry expressi. Cloning vector pMAJIc QKX95802.1 12 Cloning vector pLM006. ANF29839.1 12 (+) ADV78248.1 36 Suicide vector pMRKO1 (+) AQY63023.1 12 Expression vector pcDNA. WP\_139162151.1 (+) 221 Bacteria QVS02994.1 Cloning vector pLDJIF1. Cell-free gateway cloni.. AIC82349.1 10 228 QKV27546.1 12 synthetic construct (+) 12 ACO48269.1 Cloning vector pNIGEL17 (+) WP\_046072766.1 (+) 12 230 Bacteria 230 Expression vector pUAS. AQY63019.1 12 (+) BAP11994.1 12 229 synthetic construct (+) 229 AIL28759.1 11 synthetic construct AKE44002.1 27 Physcomitrella transfor... AHH01498.1 12 Cloning vector pME-loxP. (+) Cell-free gateway cloni. AIC82341.1 227 WP\_176378307.1 (+) Salmonella enterica 27 245 OWH28488.1 47 Salmonella enterica sub. 33 251 AFN88271.1 Cloning vector DH7-11 (+) 12 ACZ51348.1 Cloning and transformat (+) Binary vector pAMARENA CBX26418.1 12 (+) (+) QRQ89491.1 11 229 synthetic construct 20 UCG09663.1 238 synthetic construct (+) 26 mCherry and eGFP exp... QOL79196.1 244 (+) 35 12 253 6B0B\_D Discosoma sp. (+) AHE38497.1 230 Cloning vector pGGB001 (+) AKT95054.1 33 Cloning vector pJL71-2.. (+) Binary vector pFMIRE6 AGN92882.1 163 (+) 31 AFC17497.1 249 synthetic construct (+) Protein trap vector Mi[Hto.. AEJ90552.1 38 256 (+) ANO45948.1 12 228 synthetic construct (+) AMA07805.1 12 230 Clostridium difficile shutt. (+) 12 QHJ90345.1 Cloning vector pDXTR (+) UYR58242.1 12 230 synthetic construct (+) 45 Cloning vector pGGD003 AHE38526.1 263 (+) 12 QOG17934.1 230 Bradyrhizobium sp. SE... (+) synthetic construct BAJ04355.1 12 229 (+) ULY72273.1 12 Plant transient expressi. (+) 12 synthetic construct AJC52542.1 (+) QNT54862.1 151 368 Reverse genetics vector... WP\_215921894.1 (+) Vibrio splendidus 165 Mastadenovirus vector AIJ27453.1 383 (+) 68 QOQ50759.1 Cloning vector pIBA105. (+) Cloning vector pBAC-LC ALP32217.1 372 (+) Cloning vector pCMV-Cy. QEM23464.1 54 (+) 22 WP\_216056509.1 (+) Psychrosphaera sp. F3.. 370 587 QNL14337.1 synthetic construct WP\_154827248.1 (+) 12 230 Streptomyces coelicolor BBA65118.1 12 229 synthetic construct (+) BBA65119.1 12 229 synthetic construct (+) ALP32219.1 219 Cloning vector pBAC-TC (+) 2QLI\_A 2 224 unidentified (+) 2QLH\_A 2 224 unidentified (+) 6BBO\_D 219 Discosoma sp. 4 (+)

2QLG\_A

4H3L\_A

AAV52166.1

ANF29843.1

AVE25733.1

ADY04823.1

ASY93074.1

ANZ03366.1

2

12

10

207

24

236

159

162

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Discosoma sp. LW-2004

Discosoma sp. LW-2004

Cloning vector pLM006.

Synthetic plasmid pBS\_.

Gal4/UAS cloning vector.

Cloning vector pFYS019

Cloning vector Ble-mChe...

synthetic construct

224

230

424

242