Table S2. Oligonucleotide sequences for plasmid construction

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| Primer | Sequence | Purpose |
| **Lentiviral gRNA vectors** |
| pLentiCRISPRv2-gRNA1 upper | 5-CACCGAGGACCCCGTCTGGAGGCGG-3 | Upper strand oligonucleotide for insertion into BsbMI site of pLentiCRISPRv2 |
| pLentiCRISPRv2-gRNA1 lower | 5-AAACCCGCCTCCAGACGGGGTCCTC-3 | Lower strand oligonucleotide for insertion into BsbMI site of pLentiCRISPRv2 |
| pLentiCRISPRv2-gRNA2 upper | 5-CACCGCGCCGGGTACGGCTGTTTTG-3 | Upper strand oligonucleotide for insertion into BsbMI site of pLentiCRISPRv2 |
| pLentiCRISPRv2-gRNA2 lower | 5-AAACCAAAACAGCCGTACCCGGCGC-3 | Lower strand oligonucleotide for insertion into BsbMI site of pLentiCRISPRv2 |
| **Yeast two-hybrid vectors** |
| pGBT9-syntaxin forward | 5-ATCCAGGAATTCATGTCATACGGTCCCTTAGAC-3 | Forward PCR primer for cloning human STX12 (STX13) cytoplasmic domain into pGBT9 with 5 EcoRI site |
| pGBT9-syntaxin reverse | 5-CGCTACGTCGACCCTTACTTGCGAGATTTTTTC TG-3 | Reverse PCR primer for cloning human STX12 (STX13) cytoplasmic domain into pGBT9 with 3 SalI site |
| pGBT9/pGAD424-myc-Pldn forward | 5-ATCGGAGAATTCGGATCCAGGGACATGGAACAA AAGC-3 | Forward PCR primer for cloning myc-tagged human Pldn into pGBT9 and pGAD424 with 5 tandem EcoRI and BamHI sites |
| pGBT9/pGAD424-myc-Pldn reverse | 5-CCTTTTGCTCACATGTTCTTTCCTGCG-3 | Reverse PCR primer 300 bp downstream of pCR3.1 multiple cloning site for two-step PCR mutagenesis of Pldn C-terminus |
| pGAD424-myc-Pldn-AAA1 two-step PCR forward | 5-TGAGGCTAAA***GCAGCAGCA***GCCAAGTTGGTGAAT ATAAG-3 | Forward internal two-step PCR primer to generate Pldn110-112A from human Pldn |
| pGAD424-myc-Pldn-AAA1 two-step PCR reverse | 5-CCAACTTGGC***TGCTGCTGC***TTTAGCCTCAGCAAA CAAAGC-3 | Reverse internal two-step PCR primer to generate Pldn110-112A from human Pldn |
| pGAD424-myc-Pldn-AAA2 two-step PCR forward | 5-ACACTATCAT***GCCGCCGCC***GTGAATATAAGAAAA GAGATGC-3 | Forward internal two-step PCR primer to generate Pldn113-115A from human Pldn |
| pGAD424-myc-Pldn-AAA2 two-step PCR reverse | 5-TTATATTCAC***GGCGGCGGC***ATGATAGTGTTTAGC CTCAGC-3 | Reverse internal two-step PCR primer to generate Pldn113-115A from human Pldn |
| pGAD424-myc-Pldn-AAA3 two-step PCR forward | 5-TGCCAAGTTG***GCAGCAGCA***AGAAAAGAGATGCTGATGC-3 | Forward internal two-step PCR primer to generate Pldn116-118A from human Pldn |
| pGAD424-myc-Pldn-AAA3 two-step PCR reverse | 5-TCTCTTTTCT***TGCTGCTGC***CAACTTGGCATGATAGTG-3 | Reverse internal two-step PCR primer to generate Pldn116-118A from human Pldn |
| pGAD424-myc-Pldn-AAA4 two-step PCR forward | 5-GGTGAATATA***GCAGCAGCA***ATGCTGATGCTTCATG-3 | Forward internal two-step PCR primer to generate Pldn119-121A from human Pldn |
| pGAD424-myc-Pldn-AAA4 two-step PCR reverse | 5-GCATCAGCAT***TGCTGCTGC***TATATTCACCAACTTGGCATG-3 | Reverse internal two-step PCR primer to generate Pldn119-121A from human Pldn |
| pGAD424-myc-Pldn-AAA5 two-step PCR forward | 5-AAGAAAAGAG***GCAGCAGCA***CTTCATGAAAAAACATCAAAG-3 | Forward internal two-step PCR primer to generate Pldn122-124A from human Pldn |
| pGAD424-myc-Pldn-AAA5 two-step PCR reverse | 5-TTTCATGAAG***TGCTGCTGC***CTCTTTTCTTATATTCACC-3 | Reverse internal two-step PCR primer to generate Pldn122-124A from human Pldn |
| pGAD424-myc-Pldn-AAA6 two-step PCR forward | 5-GATGCTGATG***GCAGCAGCA***AAAACATCAAAGTTAAAAAAAAG-3 | Forward internal two-step PCR primer to generate Pldn125-127A from human Pldn |
| pGAD424-myc-Pldn-AAA6 two-step PCR reverse | 5-TTTGATGTTTT***TGCTGCTGC***CATCAGCATCTCTTTTC-3 | Reverse internal two-step PCR primer to generate Pldn125-127A from human Pldn |
| pGAD424-myc-Pldn-AAA7 two-step PCR forward | 5-GCTTCATGAA***GCAGCAGCA***AAGTTAAAAAAAAGAGCAC-3 | Forward internal two-step PCR primer to generate Pldn128-130A from human Pldn |
| pGAD424-myc-Pldn-AAA7 two-step PCR reverse | 5-TTTTTAACTT***TGCTGCTGC***TTCATGAAGCATCAGCATCTC-3 | Reverse internal two-step PCR primer to generate Pldn128-130A from human Pldn |
| pGAD424-myc-Pldn-AAA8 two-step PCR forward | 5-AAAAACATCA***GCAGCAGCA***AAAAGAGCACTTAAACTGCAGC-3 | Forward internal two-step PCR primer to generate Pldn131-133A from human Pldn |
| pGAD424-myc-Pldn-AAA8 two-step PCR reverse | 5- GTGCTCTTTT***TGCTGCTGC***TGATGTTTTTTCATGAAGC-3 | Reverse internal two-step PCR primer to generate Pldn131-133A from human Pldn |
| pGAD424-myc-Pldn-AAA9 two-step PCR forward | 5-AAAGTTAAAA***GCAGCAGCA***CTTAAACTGCAGCAGAAGAGGC-3 | Forward internal two-step PCR primer to generate Pldn134-136A from human Pldn |
| pGAD424-myc-Pldn-AAA9 two-step PCR reverse | 5-GCAGTTTAAG***TGCTGCTGC***TTTTAACTTTGATGTTTTTTC-3 | Reverse internal two-step PCR primer to generate Pldn134-136A from human Pldn |
| pGAD424-myc-Pldn-AAA10 two-step PCR forward | 5-AAAAAGAGCA***GCAGCAGCA***CAGCAGAAGAGGCAAAAAG-3 | Forward internal two-step PCR primer to generate Pldn137-139A from human Pldn |
| pGAD424-myc-Pldn-AAA10 two-step PCR reverse | 5-TCTTCTGCTG***TGCTGCTGC***TGCTCTTTTTTTTAACTTTG-3 | Reverse internal two-step PCR primer to generate Pldn137-139A from human Pldn |
| pGAD424-myc-Pldn-AAA11 two-step PCR forward | 5-CACTTAAACTG***GCAGCAGCA***AGGCAAAAAGAAGAGTTGG-3 | Forward internal two-step PCR primer to generate Pldn140-142A from human Pldn |
| pGAD424-myc-Pldn-AAA11 two-step PCR reverse | 5-CTTTTTGCCT***TGCTGCTGC***CAGTTTAAGTGCTCTTTTTTTTAAC-3 | Reverse internal two-step PCR primer to generate Pldn140-142A from human Pldn |
| pGAD424-myc-Pldn-AAA12 two-step PCR forward | 5-GCAGCAGAAG***GCAGCAGCA***GAAGAGTTGGAAAGGGAGC-3 | Forward internal two-step PCR primer to generate Pldn143-145A from human Pldn |
| pGAD424-myc-Pldn-AAA12 two-step PCR reverse | 5-CCAACTCTTC***TGCTGCTGC***CTTCTGCTGCAGTTTAAGTGC-3 | Reverse internal two-step PCR primer to generate Pldn143-145A from human Pldn |
| pGAD424-myc-Pldn-AAA13 two-step PCR forward | 5-GAGGCAAAAA***GCAGCAGCA***GAAAGGGAGCAGCAACGAGAG-3 | Forward internal two-step PCR primer to generate Pldn146-148A from human Pldn |
| pGAD424-myc-Pldn-AAA13 two-step PCR reverse | 5-GCTCCCTTTC***TGCTGCTGC***TTTTTGCCTCTTCTGCTGCAG-3 | Reverse internal two-step PCR primer to generate Pldn146-148A from human Pldn |
| pGAD424-myc-Pldn-AAA14 two-step PCR forward | 5-AGAAGAGTTG***GCAGCAGCA***CAGCAACGAGAGAAGGAGTTTG-3 | Forward internal two-step PCR primer to generate Pldn149-151A from human Pldn |
| pGAD424-myc-Pldn-AAA14 two-step PCR reverse | 5-CTCGTTGCTG***TGCTGCTGC***CAACTCTTCTTTTTGCCTCTTC-3 | Reverse internal two-step PCR primer to generate Pldn149-151A from human Pldn |
| pGAD424-myc-Pldn-AAA15 two-step PCR forward | 5-GGAAAGGGAG***GCAGCAGCA***GAGAAGGAGTTTGAAAGAG-3 | Forward internal two-step PCR primer to generate Pldn152-154A from human Pldn |
| pGAD424-myc-Pldn-AAA15 two-step PCR reverse | 5-ACTCCTTCTC***TGCTGCTGC***CTCCCTTTCCAACTCTTCTTTTTG-3 | Reverse internal two-step PCR primer to generate Pldn152-154A from human Pldn |
| pGAD424-myc-Pldn-AAA16 two-step PCR forward | 5-GCAGCAACGA***GCAGCAGCA***TTTGAAAGAGAAAAGCAG-3 | Forward internal two-step PCR primer to generate Pldn155-157A from human Pldn |
| pGAD424-myc-Pldn-AAA16 two-step PCR reverse | 5-CTCTTTCAAA***TGCTGCTGC***TCGTTGCTGCTCCCTTTCC-3 | Reverse internal two-step PCR primer to generate Pldn155-157A from human Pldn |
| pGAD424-myc-Pldn-AAA17 two-step PCR forward | 5-AGAGAAGGAG***GCAGCAGCA***GAAAAGCAGTTAACTGCC-3 | Forward internal two-step PCR primer to generate Pldn158-160A from human Pldn |
| pGAD424-myc-Pldn-AAA17 two-step PCR reverse | 5-ACTGCTTTTC***TGCTGCTGC***CTCCTTCTCTCGTTGCTGC-3 | Reverse internal two-step PCR primer to generate Pldn158-160A from human Pldn |
| pGAD424-myc-Pldn-AAA18 two-step PCR forward | 5-GTTTGAAAGA***GCAGCAGCA***TTAACTGCCAGACCAGCC-3 | Forward internal two-step PCR primer to generate Pldn161-163A from human Pldn |
| pGAD424-myc-Pldn-AAA18 two-step PCR reverse | 5-TGGCAGTTAA***TGCTGCTGC***TCTTTCAAACTCCTTCTCTCG-3 | Reverse internal two-step PCR primer to generate Pldn161-163A from human Pldn |
| pGAD424-myc-Pldn-AAA19 reverse | 5-TATCCGGTCGACTCACATCCTTTTGGCTGGTCT***GGCGGCGGC***CTGCTTTTCTCTTTCAAACTCC-3 | Reverse one-step PCR primer to generate Pldn164-167A from human Pldn with 3 SalI site |
| pGAD424-myc-Pldn-AAA20 reverse | 5-TATCCGGTCGACTCACATCCTTTT***GGCAGCAGC***GGCAGTTAACTGCTTTTCTCTTTC-3 | Reverse one-step PCR primer to generate Pldn167-169A from human Pldn with 3 SalI site |
| pGAD424-myc-Pldn-AAA21 reverse | 5-TATCCGGTCGACTCA***TGCGGCAGC***GGCTGGTCTGGCAGTTAAC-3 | Reverse one-step PCR primer to generate Pldn170-172A from human Pldn with 3 SalI site |