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| --- | --- | --- | --- |
| lasmids | Vector | Provider | Company |
| peGFP-N1 |  | Prof. Guidalberto Manfioletti |  |
| mTMEM16A-GFP | peGFP-N1 | Prof. Anna Menini |  |
| mTMEM16F-GFP | peGFP-N1 | Prof. Anna Menini |  |
| 6xHis-N2B-mTMEM16F-GFP | peGFP-N1 |  | GENEWIZ |
| 6xHis-N2B-mTRPC1-GFP | peGFP-N1 |  | GENEWIZ |
| 6xHis-N2B-mTRPC5-GFP | peGFP-N1 |  | GENEWIZ |
| 6xHis-N2B-mTRPC6-GFP | peGFP-N1 |  | GENEWIZ |
| mCherry-Lifeact-7 |  | Prof. Michael Davidson | Addgene |

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|  |
| **Table S1** |
| List of plasmids.The cDNA of TRPC1/5/6 were from Miao Ling Plasmid Company. All the 6xHis-N2B-Protein-GFP construct is made by Genewiz company. |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| --- | --- | --- |
| No | Name | Sequence(20bp) |
|  |  |  |  |
| 1 | plentiCRISPR V2-TRPC1- sgRNA1(mouse) | ccgtaagcccacctgtaaga |
|  |  |  |
| 2 | plentiCRISPR V2-TRPC1- sgRNA2(mouse) | acgcttgtagcagaagggct |
|  |  |  |
| 3 | plentiCRISPR V2-TRPC5- sgRNA1(mouse) | attactctacgccatccgca |
|  |  |  |
| 4 | plentiCRISPR V2-TRPC5- sgRNA2(mouse) | ggagtgtgtatccagttcgg |
|  |  |  |
| 5 | plentiCRISPR V2-TRPC6- sgRNA1(mouse) | gcggcagacgattcttcgtg |
|  |  |  |
| 6 | plentiCRISPR V2-TRPC6- sgRNA2(mouse) | taaaggttatgtacggattg |
|  |  |  |
| 7 | plentiCRISPR V2-TMEM16F- sgRNA1(mouse) | agcgagcgttacctcctgta |
|  |  |  |
| 8 | plentiCRISPR V2-TMEM16F- sgRNA2(mouse) | ctctcgggtcaaataccaag |
|  |  |  |
| 9 | plentiCRISPR V2-control-sgRNA | tcttgagtttgtaacagctg |

 |
| **Table S2** |
| sgRNA Sequences.The sgRNA sequences cloned into LentiCRISPR-V2 puro vector were purchased from Miao Ling Plasmid Company. |