**Supplementary File 3** List of shRNA target sequence used in knock down experiment

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| **Name** | **Target Sequence** |
| shID1 #1 | CCGGCCTACTAGTCACCAGAGACTTCTCG  AGAAGTCTCTGGTGACTAGTAGGTTTTT |
| shID1 #2 | CCGGACTCGGAATCCGAAGTTGGAACTC  GAGTTCCAACTTCGGATTCCGAGTTTTTT |
| shID2 #1 | CCGGCCCTTCTGAGTTAATGTCAAACTCG  AGTTTGACATTAACTCAGAAGGGTTTTT |
| shID2 #2 | CCGGCCCACTATTGTCAGCCTGCATCTCG  AGATGCAGGCTGACAATAGTGGGTTTTT |
| shBMPR1A | CCGGCGCCAATCTCATACAAGCCATCTC  GAGATGGCTTGTATGAGATTGGCGTTTTT |