

Table S3-1 RT-PCR Primers

Gene name	Forward primer sequence	Reverse primer sequence
<i>Ulk1</i>	5'-TGGAGGTGGCCGTCAAATG-3'	5'-CGCATAGTGTGCAGGTAGTC-3'
<i>Ulk2</i>	5'-AGCTTCAGCATGAAAACATCGT-3'	5'-CGATTGGCATAAGACAACAGGA-3'
<i>Atg13</i>	5'-CCAGGCTCGACTTGGAGAAAA-3'	5'-AGATTTCCACACACATAGATCGC-3'
<i>Fip200</i>	5'-GACACTGAGCTAACTGTGCAA-3'	5'-GCGCTGTAAGTACACACTCTTC-3'
<i>Atg101</i>	5'-ATGAACTGTGCATCAGAAGTGC-3'	5'-CCTATGGAGTACGTGCCCT-3'
<i>Atg2a</i>	5'-CCACCTCTGCAAATCGGCA-3'	5'-CCAGTTGTCCTGATACCTCCA-3'
<i>Atg2b</i>	5'-GTCCCCTTGGACAAATGGTGT-3'	5'-GGACGGACAGGGAAATGGA-3'
<i>Atg9a</i>	5'-CAGTTTGACACTGAATACCAGCG-3'	5'-AATGTGGTGCCAAGGTGATTT-3'
<i>Atg9b</i>	5'-ATGTACCCGAAGGACTCCG-3'	5'-CATTCCGCTGATGATAGCTGT-3'
<i>Wipi1</i>	5'-CGGAACACGAGTTTGCAGC-3'	5'-CGGCACAAGATTATAGGGGGAAA-3'
<i>Wipi2</i>	5'-AGGATAACACGTCCCTAGCTG-3'	5'-TCTCTCCACAATGCAGACATCT-3'
<i>Wipi3</i>	5'-CGGGTGT TTTGCATGTGGAAT-3'	5'-GTTGGGAGGGTATTTCCGTTT-3'
<i>Wipi4</i>	5'-GCCATTCACTATCAATGCACATC-3'	5'-TCGTGGCTGAAGTTAATGCAG-3'
<i>Dfcp1</i>	5'-CATGTGCCAGGAGAGTTATGC-3'	5'-GAGTCTTATCCGCTCATGGTTTC-3'
<i>Vmp1</i>	5'-CCAGAGACGCATAGCAATGAG-3'	5'-GCAAGGTAATGAGTGGCTGTC-3'
<i>Pi3kr4</i>	5'-CTGGCGACAGGAGACTGAC-3'	5'-GGGAAACCAAGTCCCAGAA-3'
<i>Vps34</i>	5'-CCTGGACATCAACGTGCAG-3'	5'-TGTCTCTTGGTATAGCCCAGAAA-3'
<i>Becn1</i>	5'-ATGGAGGGGTCTAAGGCGTC-3'	5'-TCCTCTCCTGAGTTAGCCTCT-3'
<i>Atg14</i>	5'-AGCGGTGATTTTCGTCTATTTTCG-3'	5'-GCTGTTCAATCCTCATCTTGCAT-3'
<i>Ambra1</i>	5'-CCAGAGAAGAATGCTGTACGAAT-3'	5'-TCCATCGAGTCTTATCCTCCAC-3'
<i>Uvrug</i>	5'-ACATCGCTGCTCGGAACATT-3'	5'-CTCCACGTCCGATTCAAGGAA-3'
<i>Sh3glb1</i>	5'-AACCTCCTTAGCAAAGCTGAATG-3'	5'-GGGTTGTTTATACGACTTGGTGC-3'
<i>Atg12</i>	5'-GACCATCCAAGGACTCAT-3'	5'-GTTTACCATCACTGCCAAA-3'
<i>Atg5</i>	5'-TGTGCTTCGAGATGTGTGGTT-3'	5'-GTCAAATAGCTGACTCTTGGCAA-3'
<i>Atg16l1</i>	5'-CAGAGCAGCTACTAAGCGACT-3'	5'-AAAAGGGGAGATTCGGACAGA-3'
<i>Atg7</i>	5'-GTTTCGCCCCCTTTAATAGTGC-3'	5'-TGAACTCCAACGTCAAGCGG-3'
<i>Atg10</i>	5'-GTAGTTACCAAGTGCCGGTTC-3'	5'-AGCTAACGGTCTCCCATCTAAA-3'
<i>Lc3a</i>	5'-GACCGCTGTAAGGAGGTGC-3'	5'-CTTGACCAACTCGCTCATGTTA-3'
<i>Lc3b</i>	5'-TTATAGAGCGATAACAAGGGGAG-3'	5'-CGCCGTCTGATTATCTTGATGAG-3'
<i>Gabarap</i>	5'-AAGAGGAGCATCCGTTTCGAGA-3'	5'-GCTTTGGGGGCTTTTTCCAC-3'
<i>Gabarapl1</i>	5'-GGACCACCCCTTCGAGTATC-3'	5'-CCTCTTATCCAGATCAGGGACC-3'
<i>Gabarapl2</i>	5'-TCGGGCTCTCAGATTGTTGAC-3'	5'-ATGGCCTTCTCGGAGGGAA-3'
<i>Atg4a</i>	5'-GCTGGTATGGATTCTGGGGAA-3'	5'-TGGGTTGTTCTTTTTGTCTCTCC-3'
<i>Atg4b</i>	5'-TATGATACTCTCCGTTTTGCTGA-3'	5'-GTTCCCCCAATAGCTGAAAAG-3'
<i>Atg4c</i>	5'-AGATGAAAGCAAGATGTTGCCT-3'	5'-CCCTGTAGGTCAGCCATATTCTA-3'
<i>Atg4d</i>	5'-GTCAAGTATGGTTGGGCAGTT-3'	5'-TGTCACCCTCTCCCTCGAAAT-3'
<i>Atg3</i>	5'-ACACGGTGAAGGGAAAGGC-3'	5'-TGGTGGACTAAGTGATCTCCAG-3'
<i>Foxo1</i>	5'-ATGCTCAATCCAGAGGGAGG-3'	5'-ACTCGCAGGCCACTTAGAAAA-3'
<i>Foxo3</i>	5'-CTGGGGGAACCTGTCCTATG-3'	5'-TCATTCTGAACGCGCATGAAG-3'
<i>Tfeb</i>	5'-CCACCCCAGCCATCAACAC-3'	5'-CAGACAGATACTCCCGAACCTT-3'
<i>Creb</i>	5'-AGCAGCTCATGCAACATCATC-3'	5'-AGTCCTTACAGGAAGACTGAACT-3'
<i>Atf4</i>	5'-CCTGAACAGCGAAGTGTTGG-3'	5'-TGGAGAACCCATGAGGTTTCAA-3'
<i>p27^{KIP1}</i>	5'-TCAAACGTGAGAGTGTCTAACG-3'	5'-CCGGGCCGAAGAGATTTCTG-3'
<i>Oct4</i>	5'-GTGGAGGAAGCCGACAACAATGA-3'	5'-CAAGCTGATTGGCGATGTGAG-3'
<i>Sox2</i>	5'-GCGGAGTGGAACTTTTGTCC-3'	5'-CGGGAAGCGTGTACTTATCCTT-3'
<i>Nanog</i>	5'-TCTTCCTGGTCCCCACAGTTT-3'	5'-GCAAGAATAGTTCTCGGGATGAA-3'
<i>Klf4</i>	5'-GTGCCCCGACTAACC GTT-3'	5'-GTCGTTGAACTCCTCGGTCT-3'
<i>Esrrb</i>	5'-CAGGCAAGGATGACAGACG-3'	5'-GAGACAGCACGAAGGACTGC-3'
<i>Fbx15</i>	5'-TCGTGGGACTGAGCACA ACTA-3'	5'-TGACAGATGAGCCTCTAACAAAC-3'

<i>Tbx3</i>	5'-TTGCAAAGGGTTTTTCGAGAC-3'	5'-TGGAGGACTCATCCGAAGTC-3'
<i>Rex1</i>	5'-CCCTCGACAGACTGACCCTAA-3'	5'-TCGGGGCTAATCTCACTTTCAT-3'
<i>Tcl1</i>	5'-AAATTCAGGTGATCTTGCG-3'	5'-TGTCCTTGGGGTACAGTTGC-3'
<i>Sox17</i>	5'-GATGCGGGATACGCCAGTG-3'	5'-CCACCACCTCGCCTTTCAC-3'
<i>Gata4</i>	5'-CCCTACCCAGCCTACATGG-3'	5'-ACATATCGAGATTGGGGTGTCT-3'
<i>Gata6</i>	5'-CTCAGGGGTAGGGGCATCA-3'	5'-GAGGACAGACTGACACCTATGTA-3'
<i>Afp</i>	5'-CTTCCCTCATCCTCCTGCTAC-3'	5'-ACAAACTGGGTAAAGGTGATGG-3'
<i>Scl</i>	5'-CTGGCCTCCAGCTACATTTCT-3'	5'-GTCACGGTCTTTGCTCAACTT-3'
<i>Gata2</i>	5'-CACCCCGCCGTATTGAATG-3'	5'-CCTGCGAGTCGAGATGGTTG-3'
<i>T</i>	5'-GCTTCAAGGAGCTAACTAACGAG-3'	5'-CCAGCAAGAAAGAGTACATGGC-3'
<i>Eomes</i>	5'-GCGCATGTTTCCTTTCTTGAG-3'	5'-GGTCGGCCAGAACCACTTC-3'
<i>Fgf5</i>	5'-CTGTATGGACCCACAGGGAGTAAC-3'	5'-ATTAAGCTCCTGGGTCGCAAG-3'
<i>Otx2</i>	5'-TATCTAAAGCAACCGCCTTACG-3'	5'-AAGTCCATACCCGAAGTGGTC-3'
<i>Nestin</i>	5'-CCCTGAAGTCGAGGAGCTG-3'	5'-CTGCTGCACCTCTAAGCGA-3'
<i>Sox1</i>	5'-AAGGAACACCCGGATTACAAGT-3'	5'-GTTAGCCCAGCCGTTGACAT-3'
<i>β-actin</i>	5'-GGCTGTATTCCCCTCCATCG-3'-3'	5'-CCAGTTGGTAACAATGCCATGT-3'