

Rab22A recruits BLOC-1 and BLOC-2 to promote the biogenesis of recycling endosomes

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Appendix Table S1. List of TRC shRNA plasmids and their target sequences

Gene	5'-Target sequence-3'	Gene	5'-Target sequence-3'
<i>hRab4A</i>	sh1: GATAGAATGTGGCACTAAATC sh2: CCTACAATGCGCTTACTAATC sh3: TCCGTGACGAGAAGTTATTAC sh4: GCTTACTTCATCAGTTTATTC	<i>hRab11A</i>	sh1: ATCATGCTGATAGTAACATTG sh2: GCCTTATTGGTTTATGACATT
<i>hRab5A</i>	sh1: GGCAAGCAAGTCCTAACATTGC sh2: CCAGGAATCAGTGTGTAGTAC sh3: GCAGCCTTCCTTTCCAAAGTTC sh4: GAGAGTCCGCTGTTGGCAAATC sh5: CCATAGCCTAGCACCAATGTAC	<i>hRab14A</i>	sh1: CCTCACACAATTGGTGTGAA sh2: GAAGCCAAACAGTTTGTGAA sh3: GATGCAAGGAATCTCACCAATC sh4: GTGTTGAATTTGGTACAAGAA
<i>hRab5B</i>	sh1: GCCAGTCCTAGCATCGTTATT sh2: GAAAGTCAAGCCTGGTATTAC sh3: AGGTACAAGACAGCGACTTAC sh4: GCAGATGACAACAGCTTATTG sh5: GACCTGGCCAACAAACGTATG	<i>hRab22A</i>	sh1: GCAGCTATAATCGTTTATGAT sh2: CCAAACATCAACCCAACAATA sh3: CGCGATAAACATAAATGAACTC sh4: CAGGTGTAGGTAAATCGAGTA sh5: CAAGAACGATTTCTGCCTTA
<i>hRab5C</i>	sh1: ATGCAGACGACAACAGTTTGC sh2: CATTGCACTCGCGGGTAACA sh3: CTTTGTCAAGGGACAGTTTC	<i>hMuted (BLOC-1 subunit)</i>	sh1: GCTCAGAGAACTGTAGGTATA sh2: CCACTTAGTAGCTAGTGAGAA sh3: GTAGCTAGTGAGAAACAGCAT sh4: GCAGCTAATGACTCAGTCTGT
<i>hRab7A</i>	sh1: ATGGATAAATTGCCGTTATTTTC sh2: ACTGCTGCGTTCTGGTATTTG sh3: GGCTAGTCACAATGCAGATAT sh4: ACGAATTTCTGAACTTATCA sh5: ACGTAGGCCTTCAACACAATTC sh6: ACCAGTATGTGAATAAGAAAT sh7: GGTTATCATCTGGGAGATTC sh8: ATAGCTGGAGAGATGAGTTTC	<i>hHPS6 (BLOC-2 subunit)</i>	sh1: TCACTGACACAGGAAATCATT sh2: GCTTGGTCTCTCCTACAGTAA sh3: GAGGGAATCTTCGTCTGCTTTC sh4: GCCCATATGAGGACATCCTAT sh5: GCTTCGAAGTGAAATCTTCAA
<i>hRab9A</i>	sh1: GACAACGGCGACTATCCTTAT sh2: CCGAGGATAGGTCAGATCATT		

Appendix Table S2. List of primers used for transcript analysis

Gene	Forward and reverse primers	Amplicon size (bp)
Human specific primers		
<i>hGAPDH</i>	5'-AGTCCACTGGCGTCTTCAC-3' 5'-GCTGATGATCTTGAGGCTGT-3'	155
<i>hRab4A</i>	5'-ATCGCGGCCGCATGTCGCAGACGGCCATG-3' 5'-CTTCTCGAGCTAACAAACCACACTCCTG-3'	657
<i>hRab5A</i>	5'-GGAAGATCTATGGCTAGTCGAGGCGCAA-3' 5'-CGCGTCGACTTAGTTACTACAACACTGA-3'	648
<i>hRab5B</i>	5'-GGCCATGACTAGCAGAAGTACA-3' 5'-AACCTCAGTTGCTACAACACTG-3'	648
<i>hRab5C</i>	5'-ATACATGGCGGGTTCGAGGAGGT-3' 5'-AGCCTCAGTTGCTGCAGCACTG-3'	651
<i>hRab7A</i>	5'-AAGGATGACCTCTAGGAAGAAA-3' 5'-AGGCTCAACAACACTGCAGCTTTC-3'	620
<i>hRab9A</i>	5'-TGGAGATGGTGGAGTTGGGA-3' 5'-GCAGCAGTCAGAACCTCTGT-3'	211
<i>hRab11A</i>	5'-GGAAGATCTATGGGCACCCGCGACGACGA-3' 5'-CGCGTCGACTTAGATGTTCTGACAGCACT-3'	651
<i>hRab14A</i>	5'-CGTGAATTCATGGCAACTGCACCATAACAAC-3' 5'-ACGCGGATCCCTAGCAGCCACAGCCTTCTCT-3'	648
<i>hRab22A</i>	5'-ATGGCGCTGAGGGAGCTC-3' 5'-TCAGCAGCAGCTCCGCTT-3'	585
Mouse specific primers		
<i>mGAPDH</i>	5'-GAGCCAAACGGGTCATCATCT-3' 5'-GAGGGGCCATCCACAGTCTT-3'	220
<i>mRab22A</i>	5'-GCCGCTCGAGATGGCGCTGAGGGAACTT-3' 5'-AGGGAAGCTTTCAGCAGCAGCTTCGCTT-3'	585 bp