

Supplementary Materials:

Table S1. Primer list for qRT-PCR.

Gene	Forward primer	Reverse primer
L32	5'-AGATCCTGATGCCCAACATC-3'	5'-CAGTCCTTGACATTGTGGA-3'
mADRA1a	5'-GCTCCGTATCCACCGTAAAA-3'	5'-TCTCTCGGGAAAACCTGAGC-3'
mADRA1b	5'-GAGGCTGCGCTTACACCTAC-3'	5'-CTGCCACTGTCATCCAGAGA-3'
mADRA1d	5'-TCCGTAAGGCTGCTCAAGTT-3'	5'-GGACGAAGAAAAAGGGGAAC-3'
hADRA1a	5'-ACATTTCCAAGGCCATTCTG-3'	5'-CAGGCTACGGAGAGGATCAC-3'
hADRA1b	5'-TCTCCAGGGAAAAGAAAGCA-3'	5'-GCGGTAGAGCGATGAAGAAG-3'
hADRA1d	5'-CTCAGAGGTGGAGGCTGTGT-3'	5'-TATCGGTCTCCCGTAGGTTG-3'
MITF	5'-TGAAGCAAGAGCATTGGCTA-3'	5'-TCCACAGAGGCCTTGAGAAT-3'
Tyrosinase	5'-TTATGCGATGGAACACCTGA-3'	5'-ACTGGCAAATCCTTCCAGTG-3'

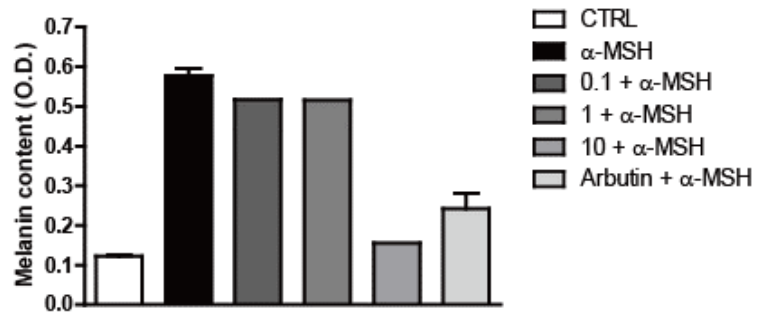


Figure S1. Melanin content assay-based HTS screening in B16F10 cells. Following 500 nM α -MSH treatment, 0.1, 1, or 10 μ M L765,314 was applied and melanin content was measured.

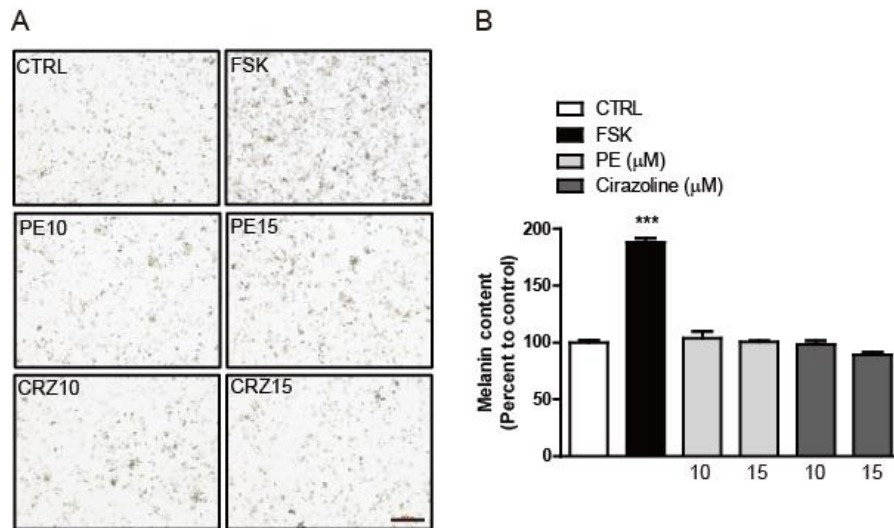


Figure S2. Mel-ab cells were treated with vehicle (DMSO), 5 μ M forskolin (FSK), or 15 μ M phenylephrine (PE15) and 15 μ M cirazoline (CZ15). Ninety-six hours after treatment, (A) microscopic images were captured and (B) melanin contents were measured. Melanin contents are given as percent changes relative to vehicle-treated controls. Scale bar: 1000 μ m.

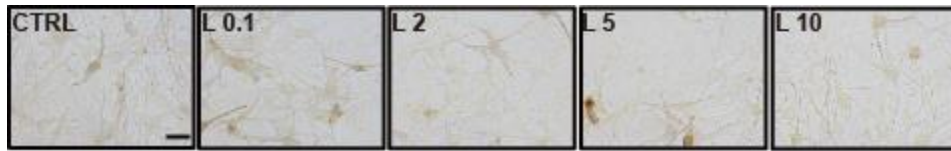


Figure S3. Microscopic images of normal human melanocytes treated with 0.1–10 μM L-765,314 for 96 h. Scale bar: 200 μm .