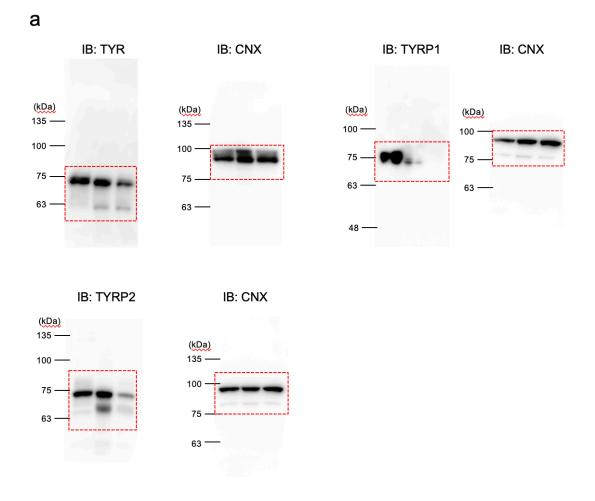
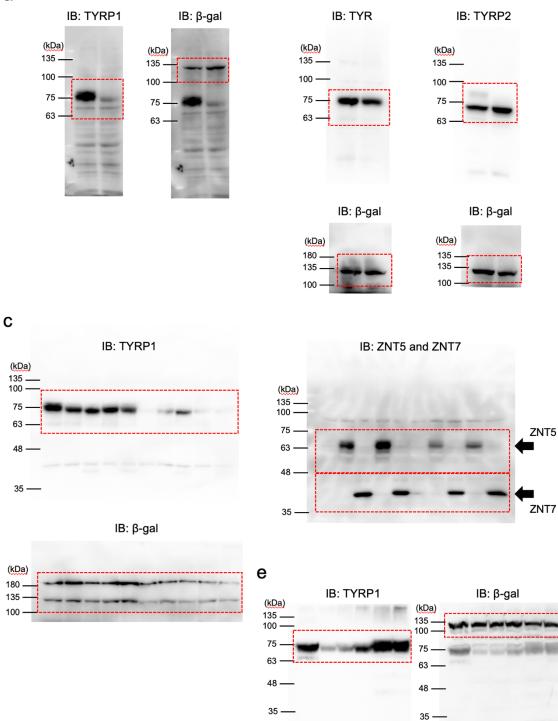


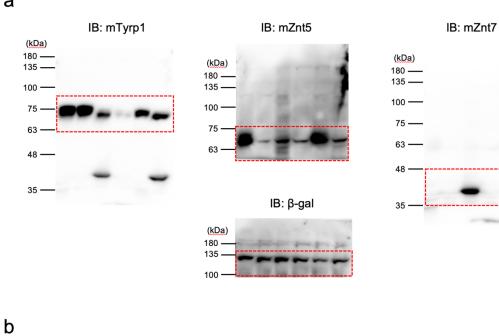
**Supplementary Figure 1. Full-length immunoblot and RT-PCR images used in Figure 3.** The panel used is boxed. In a, c, and e, the same blot was used sequentially (after stripping) for detection in each composite figure. The molecular weights of the marker proteins are indicated on the left of the immunoblot images.

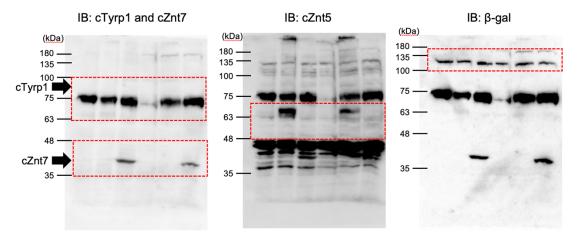


**Supplementary Figure 2. Full-length immunoblot images used in Figure 4.** The panel used is boxed. The same blot was used sequentially (after stripping) for detection in each composite figure. The molecular weights of the marker proteins are indicated on the left of the immunoblot images.



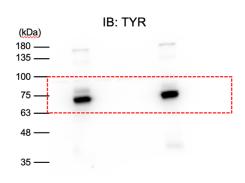
**Supplementary Figure 3. Full-length immunoblot images used in Figure 5.** The panel used is boxed. The same blot was used sequentially (after stripping) for detection in each composite figure. The molecular weights of the marker proteins are indicated on the left of the immunoblot images.



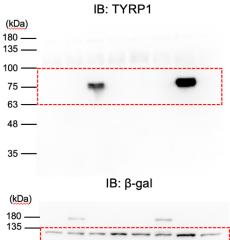


Supplementary Figure 4. Full-length immunoblot images used in Figure 6. The panel used is boxed. The same blot was used sequentially (after stripping) for detection in each composite figure. The molecular weights of the marker proteins are indicated on the right of the immunoblot images.

а

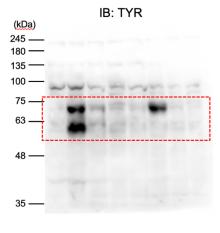


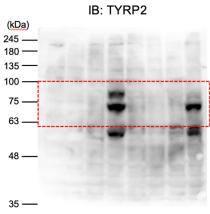
IB: TYRP2

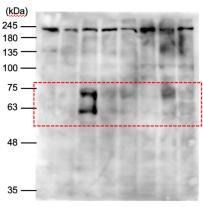


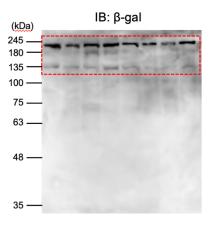


С









IB: TYRP1

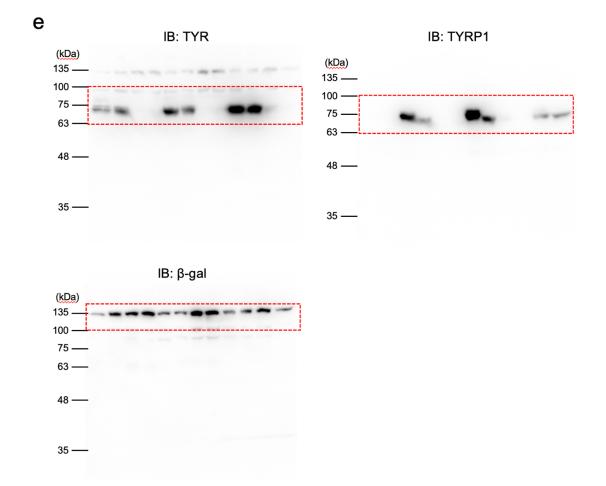
(kDa)

180 -

135 -100

> 75 63 · 48 —

35 –



**Supplementary Figure 5. Full-length immunoblot images used in Figure 7.** The panel used is boxed. The same blot was used sequentially (after stripping) for detection in each composite figure. The molecular weights of the marker proteins are indicated on the right of the immunoblot images.

Supplementary Table 1. Primers used for genomic PCR to confirm gene editing in
Mewo and SK-MEL-2 cells.

Gene	Forward primer (5' to 3')	Reverse primer (5' to 3')
ZNT5	TGTGTGAAATAGGGTTTCTAATGT	TAATCTTTGAGCTTAATTCCATTC
	AAGTGG	AGTATT
ZNT7	GTGAAGAAAGGAGCATGTGAACT	CAGAGGTAGGTAACAAAGGTAGG
	G	AC
TYRP1	CTTCAAGGCCATGTGGCCAATGT	AAGATTCTGAAAGGGTCTTCCCA
	AA	GC
ATP7A	TCTGTATTCCTGTAATGGGGGCT	AGCTGAAAATAAACCTTGCCTG

Supplementary Table 2. Primers used in RT-PCR analysis.

Gene	Forward primer (5' to 3')	Reverse primer (5' to 3')
TYRP1	GCTGCCTGTGACCAGAGGGTTCTC	GGTCATACTTTCCCGTGGGGTCACT
	ATAGTC	GTAAC
βΑCΤΙΝ	CATGTACGTTGCTATCCAGGCTGT	GTCATACTCCTGCTTGCTGATCCAC
	GCTATC	ATCTG