Appendix

Appendix A: The Primers of PCR and qRT-PCR. (Table)

Appendix B: **A**, The schematic diagram of RNA-seq process in amphoteric ESCs and PGCs. **B**, the cluster of RNA-seq in amphoteric ESCs and PGCs. **C**, the alignment of UBEI in amphoteric ESCs and PGCs via RNA-seq. (**Figure**)

Appendix C: Protein sequence alignment of UBEI in *Danio rerio* (Zebrafish), *Gallus gallus* (Chicken), *Pelodiscus sinensis* (Chinese soft-shelled turtle), *Xenopus laevis* (African clawed frog), *Homo sapiens* (Human) and *Mus musculus* (House mouse). (Figure)

Appendix D: The detection of viral titer of sh-UBE2I (A) and oe-UBE2I (B) in 293T cells. Scale bars: 100 µm. (Figure)

Appendix E: The Morphology Reversal of the effects of UBE2I. (Table)

Supplementary Table1 The Primers of PCR and qRT-PCR

Gene		Primer Sequence (5'-3')	Accession	Purpose	Length
UBE2I	F	ATGTCTGGCATAGCTCTAAGTAGA	NM_204265.1	CDS amplify	477bp
	R	TTATGATGGTGCAAACTTCTTGGCTT			
UBE2I	F	TCCAGGAAAGAAGGGGACAC	NM_204265.1	qRT-PCR	193bp
	R	AATTGTGATTGCTGGCCTCC			
SOVO	F	AAGGAGAGCGACGAGGACAAA	NM_204281.1	qRT-PCR	178bp
5029	R	GGTCCAGTCGTAGCCCTTGA			
DMDT1	F	GCCAGTTGTCAAGAAGAGCA	NM_001101831.1	qRT-PCR	174bp
DIVIKI I	R	CAGCATATGGAGCAGCAGTG			
WT1	F	GGCATACAAGATGTCCGACG	NM_205216.1	qRT-PCR	241bp
	R	GTCTTTGGTGCCGTTTCAGT			
HINTW	F	GAGGAGCCGTTGTGGACGAGG	NM_204688.2	qRT-PCR	148bp
	R	TCATCAAACGCCCAAGAAGAGG			
FOXL2	F	CCTCAACGAGTGCTTCATCA	NM_001012612.1	qRT-PCR	299bp

ACTCAGGTCTCCCACATTGC GTAGCTCCAGCCAGACAAGG ATTTGGTCTTCAACGAGT TCCACTGGAATAATACTGA	NM_174305.1 NM_001040090.1	qRT-PCR qRT-PCR	178bp
GTAGCTCCAGCCAGACAAGG ATTTGGTCTTCAACGAGT TCCACTGGAATAATACTGA	NM_001040090.1	qRT-PCR	1780p
ATTTGGTCTTCAACGAGT TCCACTGGAATAATACTGA	NM_001040090.1	qRT-PCR	157hn
TCCACTGGAATAATACTGA	INIVI_001040090.1	qRI-PCK	1 1 / 00
	NM_001040090.1	qK1-PCK	157bp
CTGGGCAAAGAGAGTTCCAG	NM_205183.2	qRT-PCR	196bp
GATTTCCACCATGCCCTCTA			
CAGCCATCTTTCTTGGGTAT	NM_205518.1	qRT-PCR	169bp
CTGTGATCTCCTTCTGCATCC			
	GATTTCCACCATGCCCTCTA CAGCCATCTTTCTTGGGTAT CTGTGATCTCCTTCTGCATCC	GATTTCCACCATGCCCTCTA CAGCCATCTTTCTTGGGTAT CTGTGATCTCCTTCTGCATCC NM_205518.1	GATTTCCACCATGCCCTCTA CAGCCATCTTTCTTGGGTAT CTGTGATCTCCTTCTGCATCC QRT-PCR