Emx1

PCR for detecting Neo, use primer Neo1 and Neo4:
Neo1: CAA GAT GGA TTG CAC GCA G
Neo4: CAT CCT GAT CGA CAA GAC

PCR condition: 94c for 2'
94c for 1', 58c for 2', 72c for 2' using 35 cycles
72c for 10'

PCR for detecting Emx1, use primer OL16 and OL10:
OL16: ATG GTG GCA CCG GCG GGA GT
OL10: GGG TTG CAG CGA GGA GGA GC

PCR condition: 95c for 1'
95c for 2', 65c for 1', 72c for 1', using 35 cycles
72c for 10'

If you obtain Neo band but no emx band, you have homozygote(-/-) animal, if you obtain both Neo band and emx band, you have heterozygote(+-/) animal, if you only obtain emx band but no Neo band, you have wildtype animal. the neo band is about 500bp while the emx is about 300-400 bp.