

### A sox5 5' side, forward integration

sox5 genome	5' GGT <u>GGGGAGACTGAGGCCG</u> <b>CTT</b> <u>CGG</u> CTGTCCGCCGCGA 3'
donor plasmid	5' CGC <u>GGCTGCTGTCA</u> GGAG <b>TCA</b> <u>TGG</u> AGCTGCACGTG 3'
	↓
predicted sequence without an indel	5' GGT <u>GGGGAGACTGAGGCCG</u> <b>CTCATGGAGCTGCACGTG</b> 3'
sox5 #1	5' GGT <u>GGGGAGACTGAGCG</u> ----- <b>CGTCACGTG</b> 3'
sox5 #3	5' GGT <u>GGGGAGACTGAGCG</u> ----- <b>CGTCACGTG</b> 3'
sox5 #4	5' GGT <u>GGGGAGACTGAGGCCG</u> ----- <b>GCTGCACGTG</b> 3'
	<u>GTTCTG</u>

### B sox5 5' side, reverse integration

sox5 genome	5' GGT <u>GGGGAGACTGAGGCCG</u> <b>CTT</b> <u>CGG</u> CTGTCCGCCGCGA 3'
donor plasmid	5' CACGTGACGCAG <b>CTCA</b> <u>TGAGCTCCCTGACAGCAGCCG</u> 3'
	↓
predicted sequence without an indel	5' GGT <u>GGGGAGACTGAGGCCG</u> <b>CTTCCCTGACAGCAGCCG</b> 3'
sox5 #2	5' GGT <u>GGGGAGACTGA</u> ----- <b>GCAGCCG</b> 3'
	<u>CG</u>

### C sox5 3' side, forward integration

sox5 genome	5' GGT <u>GGGGAGACTGAGGCCG</u> <b>CTT</b> <u>CGG</u> CTGTCCGCCGCGA 3'
donor plasmid	5' CGC <u>GGCTGCTGTCA</u> GGAG <b>TCA</b> <u>TGG</u> AGCTGCACGTG 3'
	↓
predicted sequence without an indel	5' CGC <u>GGCTGCTGTCA</u> GGAG <b>CTTCCGCTGTCCGCCG</b> 3'
sox5 #1	5' CGCG----- <b>CTTCCGCTGTCCGCCG</b> 3'
	AATGAATAACGGTTGGTGATGCGAGTGATTCT
sox5 #2	5' CGCG <u>CTGCTGTCA</u> ----- <b>CTTCCGCTGTCCGCCG</b> 3'
	<u>CCGTTTC</u>
sox5 #3	5' ----- <b>CGGCTGTCCGCCG</b> 3'
	<u>GCCGCGAACTGGTCAGTCAGTTCG</u>
sox5 #7	5' CGCG <u>CTGCTGTCA</u> ----- <b>CTGTCCGCCG</b> 3'
	<u>GTGATTGCGCTGAGCGAGACGAAATA</u>

### D sox5 3' side, reverse integration

sox5 genome	5' GGT <u>GGGGAGACTGAGGCCG</u> <b>CTT</b> <u>CGG</u> CTGTCCGCCGCGA 3'
donor plasmid	5' CACGTGACGCAG <b>CTCA</b> <u>TGAGCTCCCTGACAGCAGCCG</u> 3'
	↓
predicted sequence without an indel	5' CACGTGACGCAG <b>CTTCCGCTGTCCGCCG</b> 3'
sox5 #6	5' CACGTGACGCAG----- <b>CGGCTGTCCGCCG</b> 3'
	<u>GTAAAACATATCAA</u>

## E pax7a 5' side, forward integration

pax7a genome	5' TGA <u>AGGCTCGATCAGTGTCC</u> <b>AGT</b> TGGGTGTTTG CCTGG 3'
donor plasmid	5' CGC <u>GGCTGTCAGGGAGCTCA</u> <b>TGG</b> AGCTGCGTCACGTG 3'
↓	
predicted sequence without an indel	5' TGA <u>AGGCTCGATCAGTGTCC</u> CATGGAGCTGCGTCACGTG 3'
pax7a #1	5' TGA <u>AGGCTCGATCAGTGTCC</u> CATGGAGCTGCGTCACGTG 3'
pax7a #3	5' TGA <u>AGGCTCGATCAGTGT</u> --TCATGGAGCTGCGTCACGTG 3'
pax7a #4	5' TGA <u>AGGCTCGATCAGTGT</u> --TCATGGAGCTGCGTCACGTG 3'
pax7a #6	5' TGA <u>AGGCTCGATCA</u> --TCATGGAGCTGCGTCACGTG 3'

## F pax7a 5' side, reverse integration

pax7a genome	5' TGA <u>AGGCTCGATCAGTGTCC</u> <b>AGT</b> TGGGTGTTTG CCTGG 3'
donor plasmid	5' CACGTGACGCAGCT <b>CCA</b> T <u>GAGCTCCCTGACAGCAGCCGCG</u> 3'
↓	
predicted sequence without an indel	5' TGA <u>AGGCTCGATCAGTGTCC</u> CCTGACAGCAGCCGCG 3'
pax7a #2	5' TGA <u>AGGCTCGATCAGTGTCC</u> CCTGACAGCAGCCGCG 3'

## G pax7a 3' side, forward integration

pax7a genome	5' TGA <u>AGGCTCGATCAGTGTCC</u> <b>AGT</b> TGGGTGTTTG CCTGG 3'
donor plasmid	5' CGC <u>GGCTGTCAGGGAGCTCA</u> <b>TGG</b> AGCTGCGTCACGTG 3'
↓	
predicted sequence without an indel	5' CGC <u>GGCTGTCAGGGAGCAGTTGGGTGTTTG CCTGG</u> 3'
pax7a #1	5' CGC <u>GGCTGC</u> ----- <u>GTTGGGTGTTTG CCTGG</u> 3'
	G
pax7a #6	5' CGC <u>GGCTGTCAGGGAGCAGTTGGGTGTTTG CCTGG</u> 3'

## H pax7a 3' side, reverse integration

pax7a genome	5' TGA <u>AGGCTCGATCAGTGTCC</u> <b>AGT</b> TGGGTGTTTG CCTGG 3'
donor plasmid	5' CACGTGACGCAGCT <b>CCA</b> T <u>GAGCTCCCTGACAGCAGCCGCG</u> 3'
↓	
predicted sequence without an indel	5' CACGTGACGCAGCTCCAT <u>GAAGTTGGGTGTTTG CCTGG</u> 3'
pax7a #2	5' CACGTGACGCAGCTCCAT-- <u>GTTGGGTGTTTG CCTGG</u> 3'
pax7a #3	5' CACGTGACGCAGCTCCAT <u>G</u> -- <u>TTGGGTGTTTG CCTGG</u> 3'
	TTGGGTGT
pax7a #4	5' CACGTGACGCAGCTCCAT <u>G</u> -- <u>TTGGGTGTTTG CCTGG</u> 3'
	TTGGGTGT
pax7a #5	5' CACGTGACGCAGCTC---- <u>AGTTGGGTGTTTG CCTGG</u> 3'