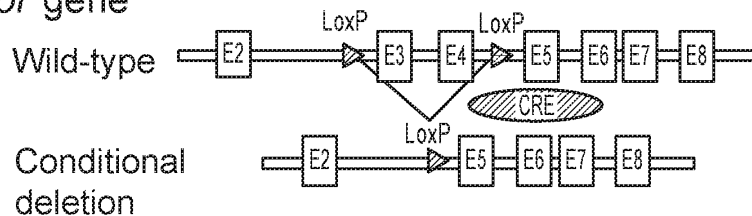
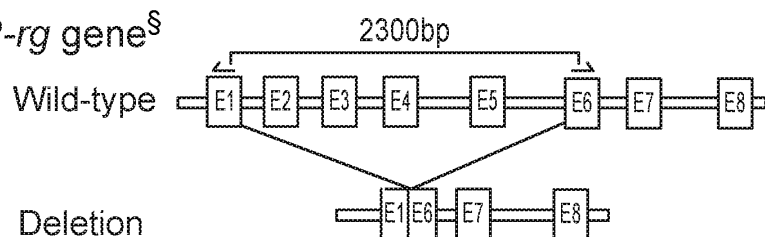
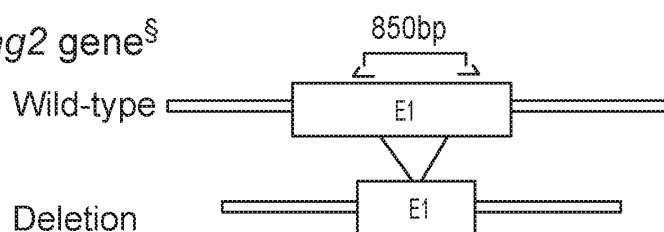
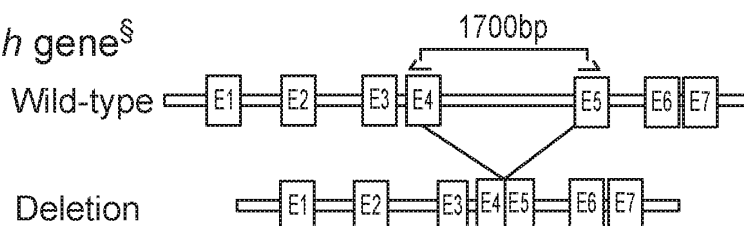


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Figure 1A

PIRF* mouse strain**Por* gene******Ii2-rg* gene[§]*****Rag2* gene[§]*****Fah* gene[§]**

*Embryonic stem cell targeting (See, Figure 4)

§ Zygote injection with Cas9 and gRNA (See, Figure 5)

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Figure 1B

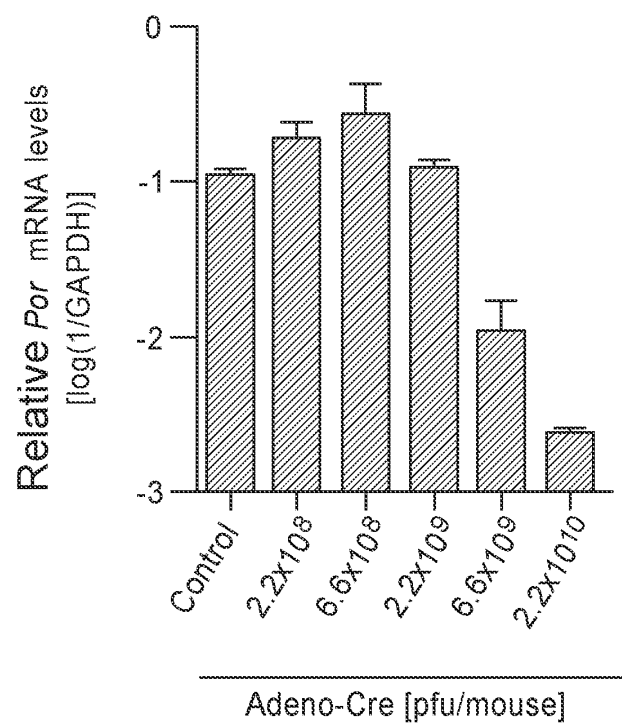
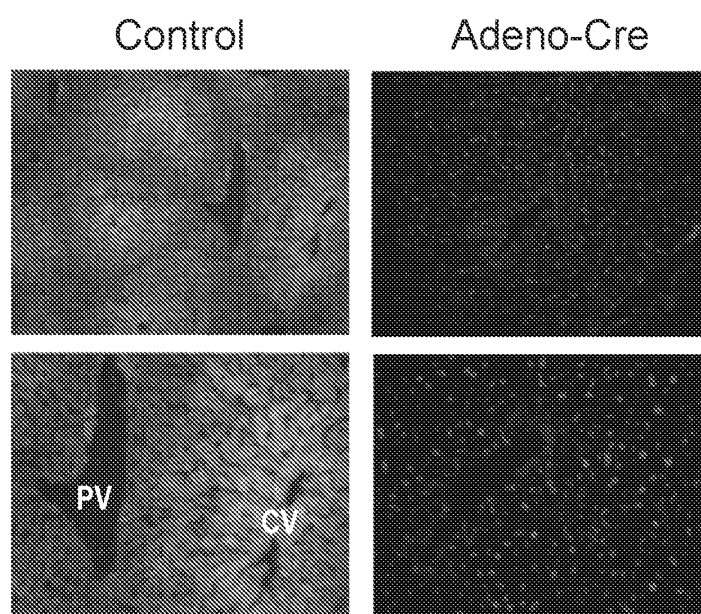
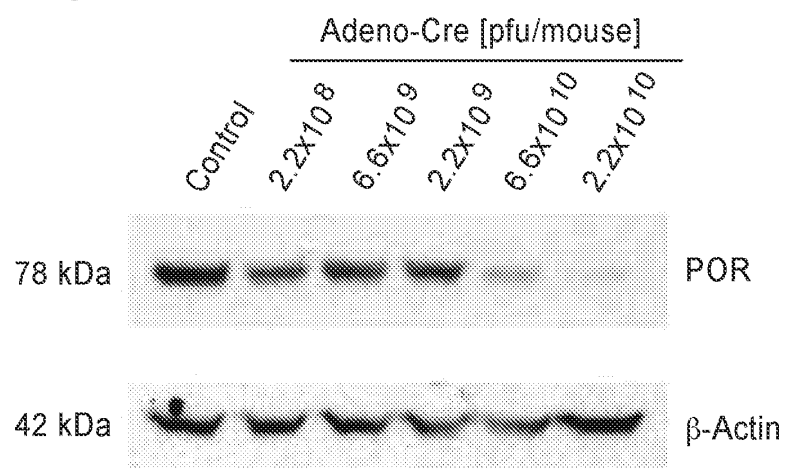


Figure 1C



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Figure 1D



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Figure 2A

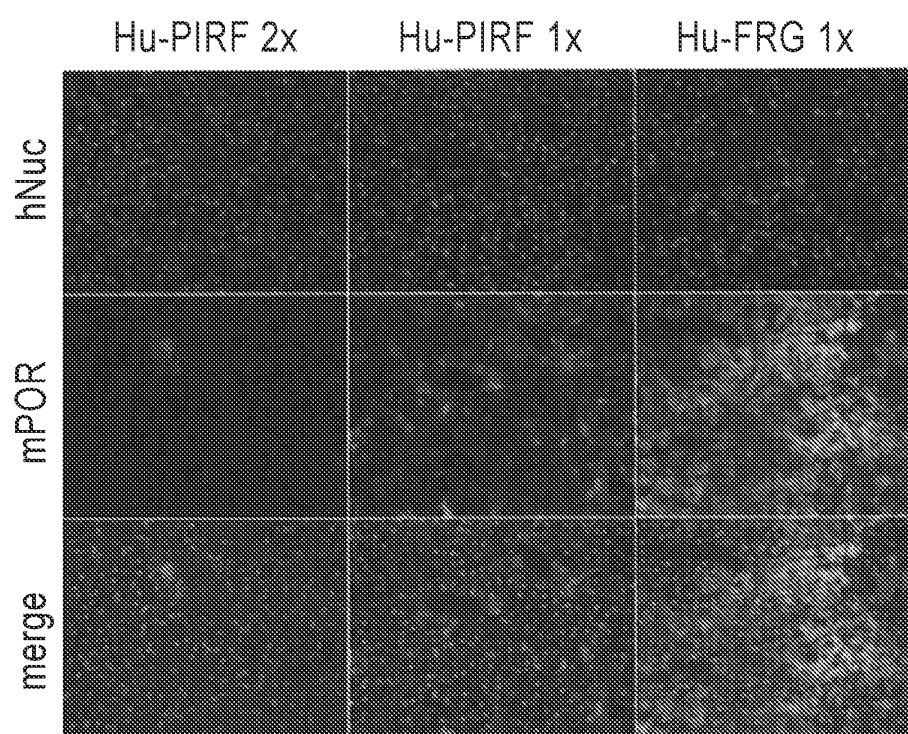
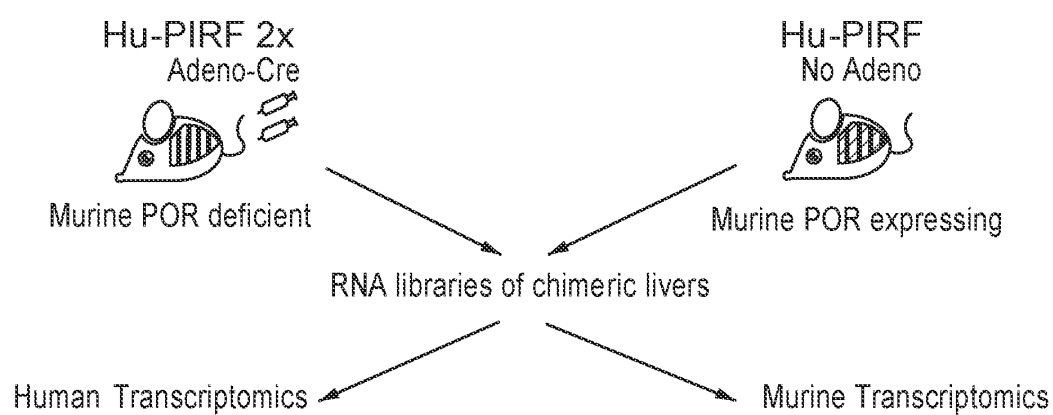
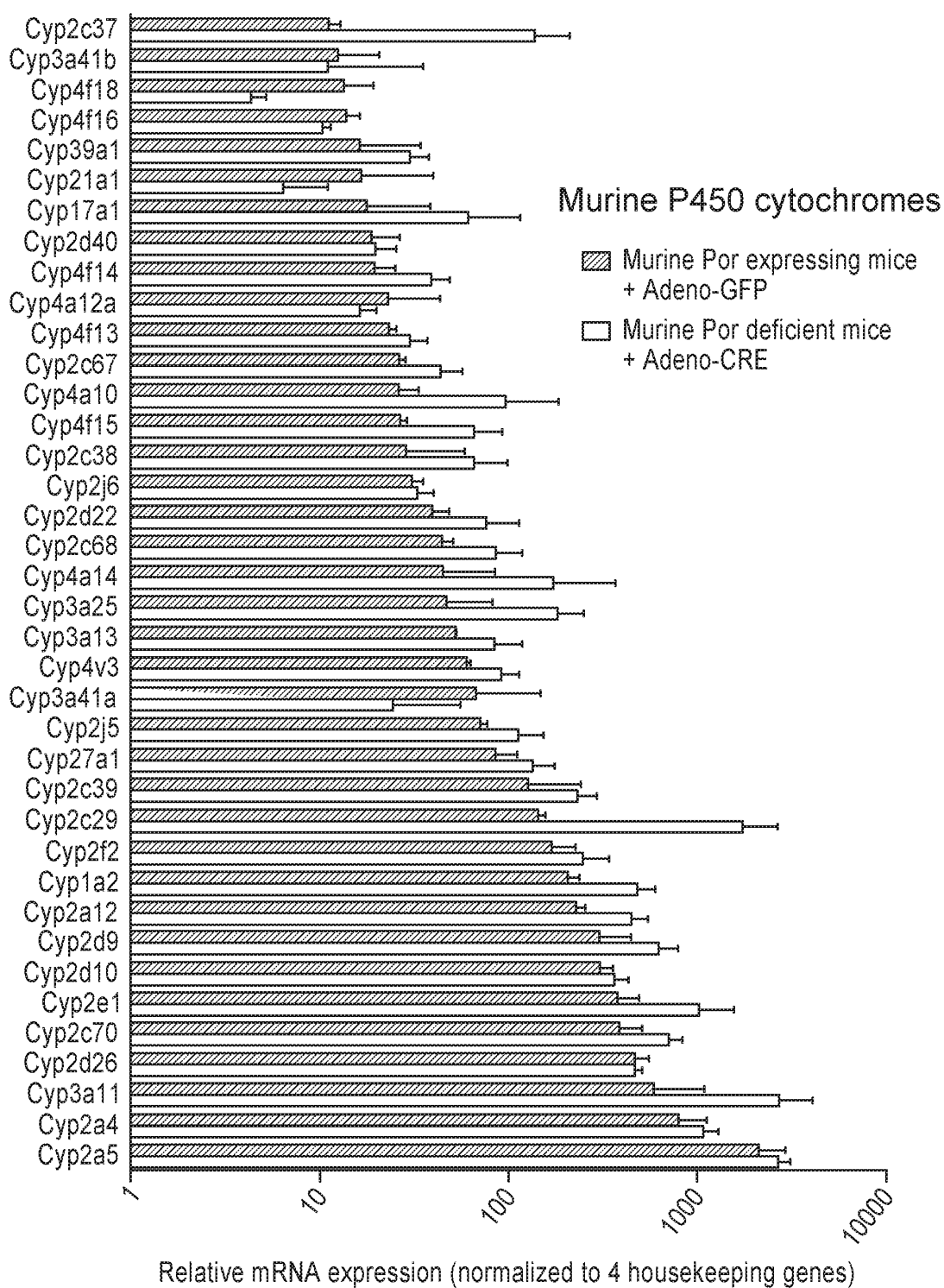


Figure 2B



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Figure 2C



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Figure 2D

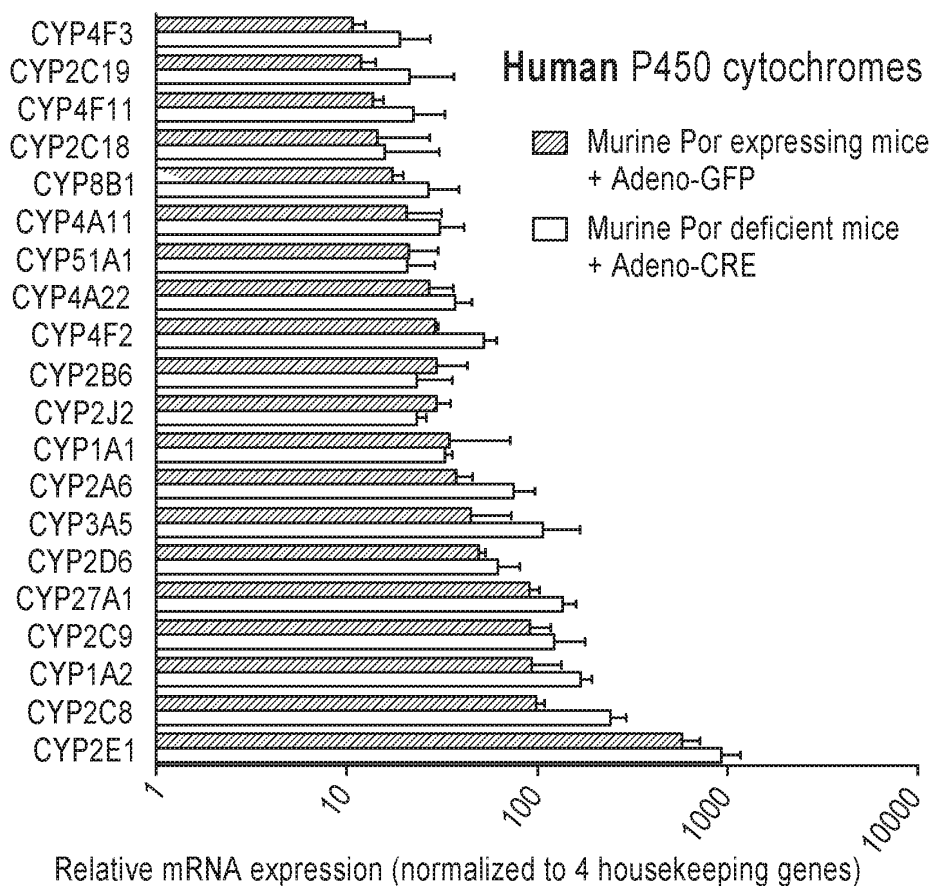
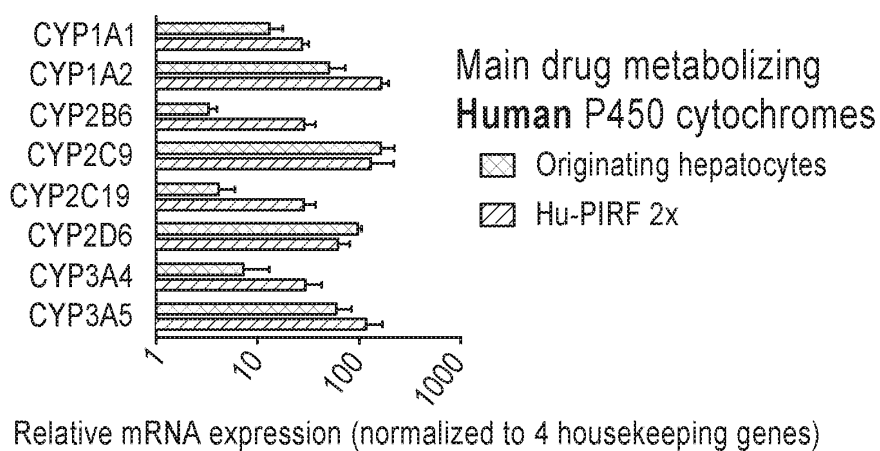


Figure 2E



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Figure 3A

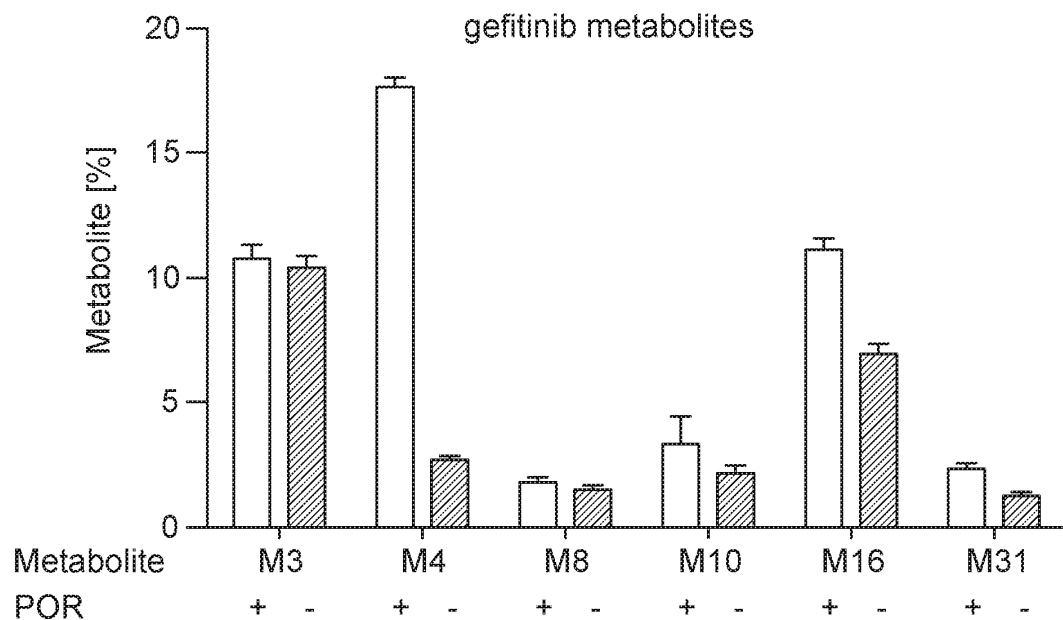
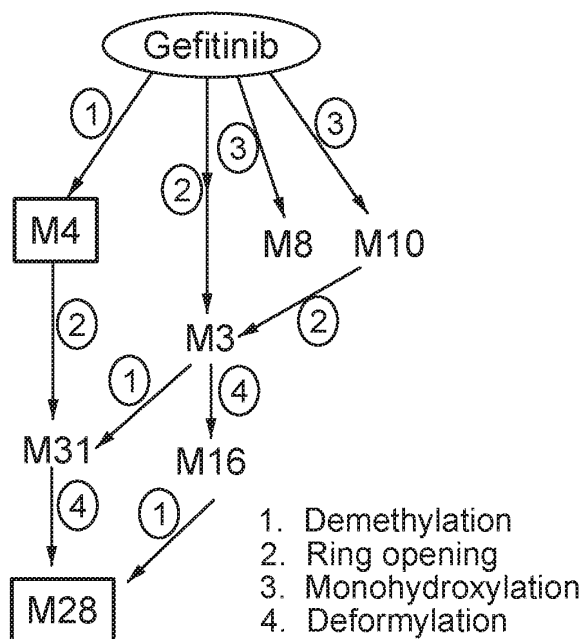


Figure 3B



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Figure 3C

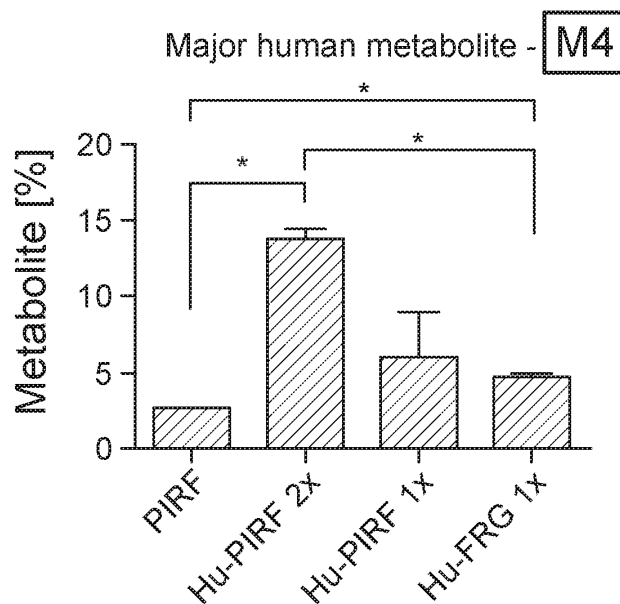
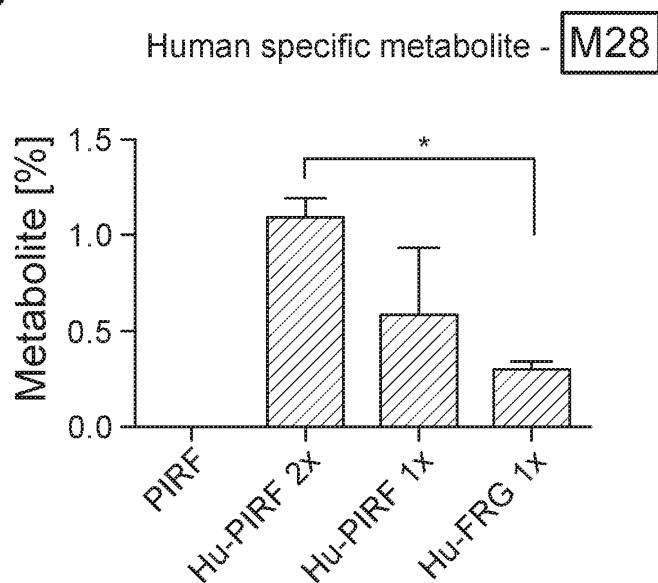


Figure 3D



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Figure 3E

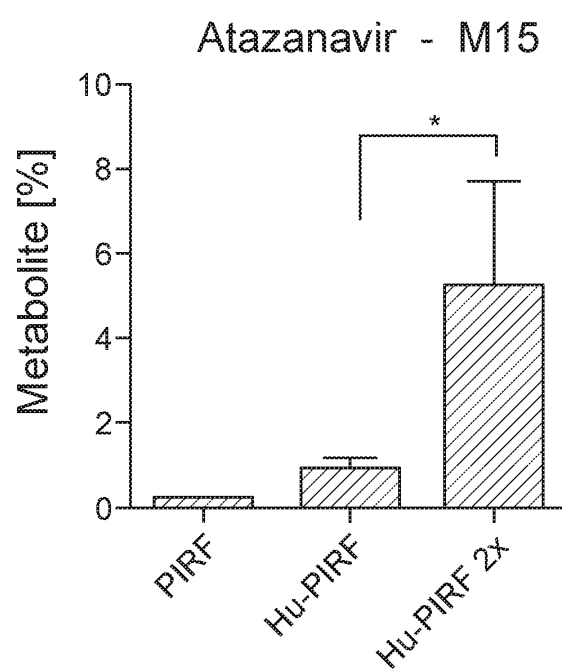
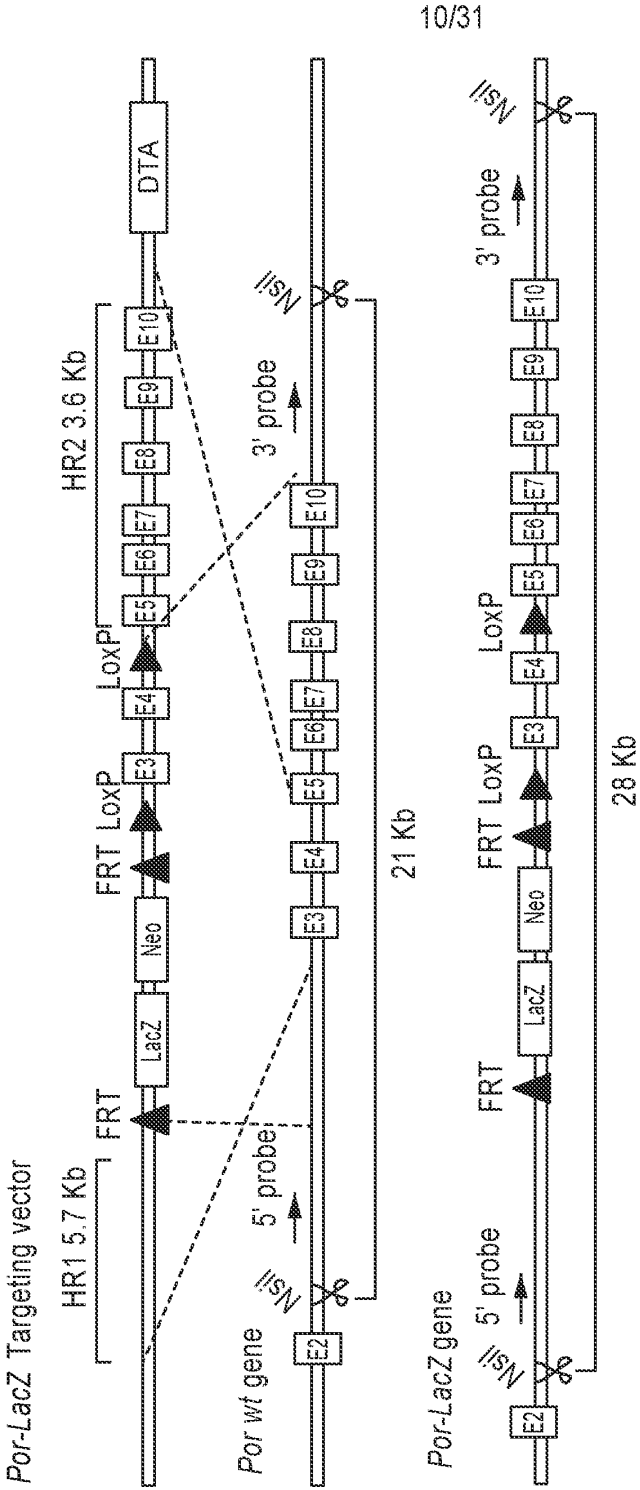
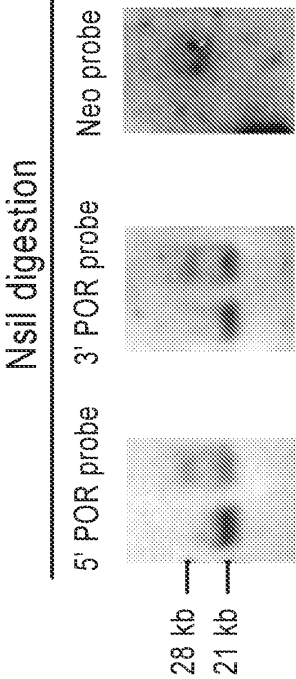


Figure 4A



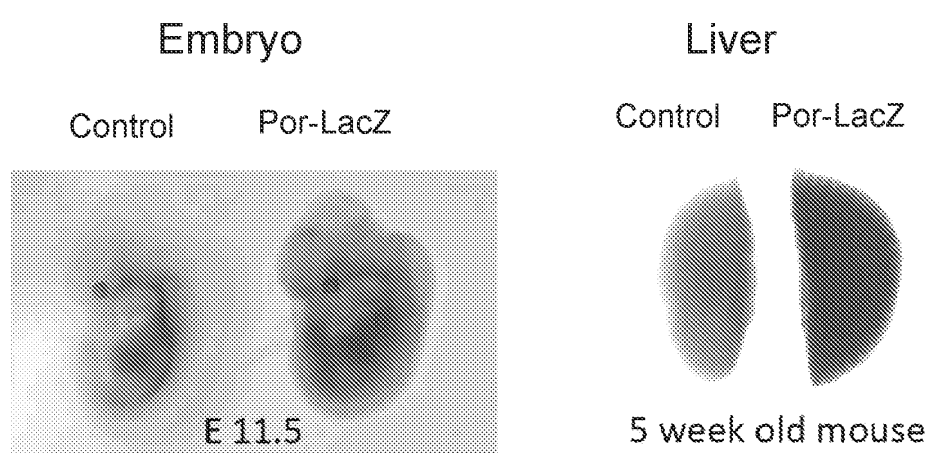
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Figure 4B



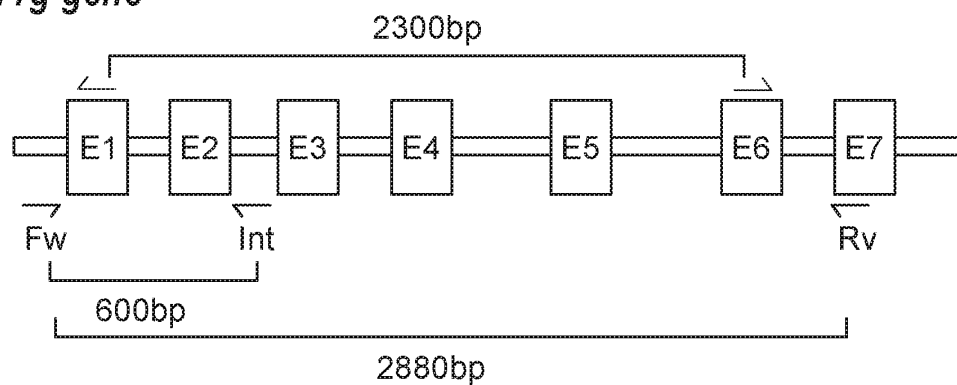
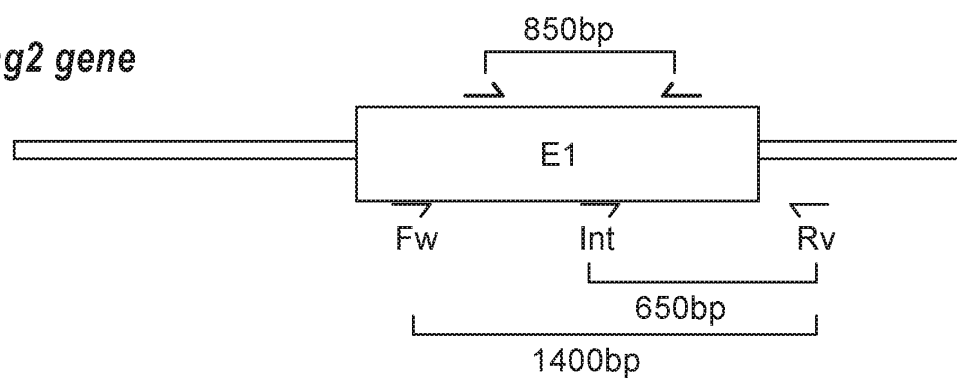
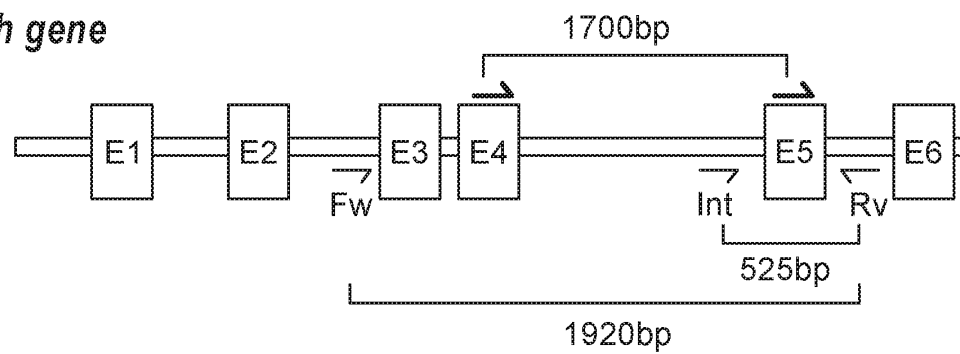
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Figure 5



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Figure 6A

Il2 rg gene*Rag2 gene**Fah gene*

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Figure 6B

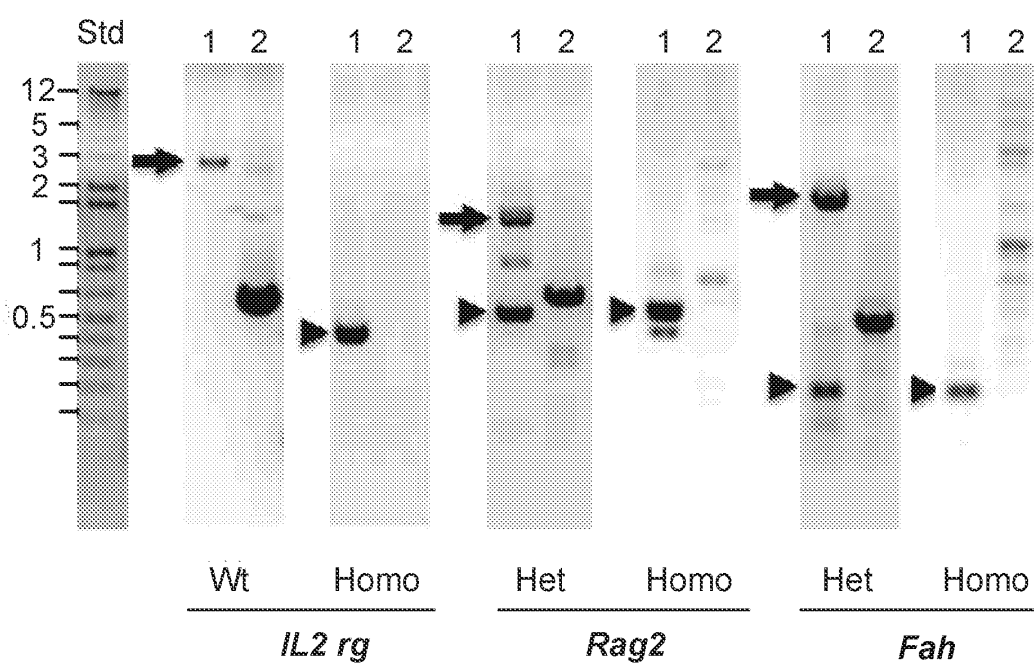


Figure 7A

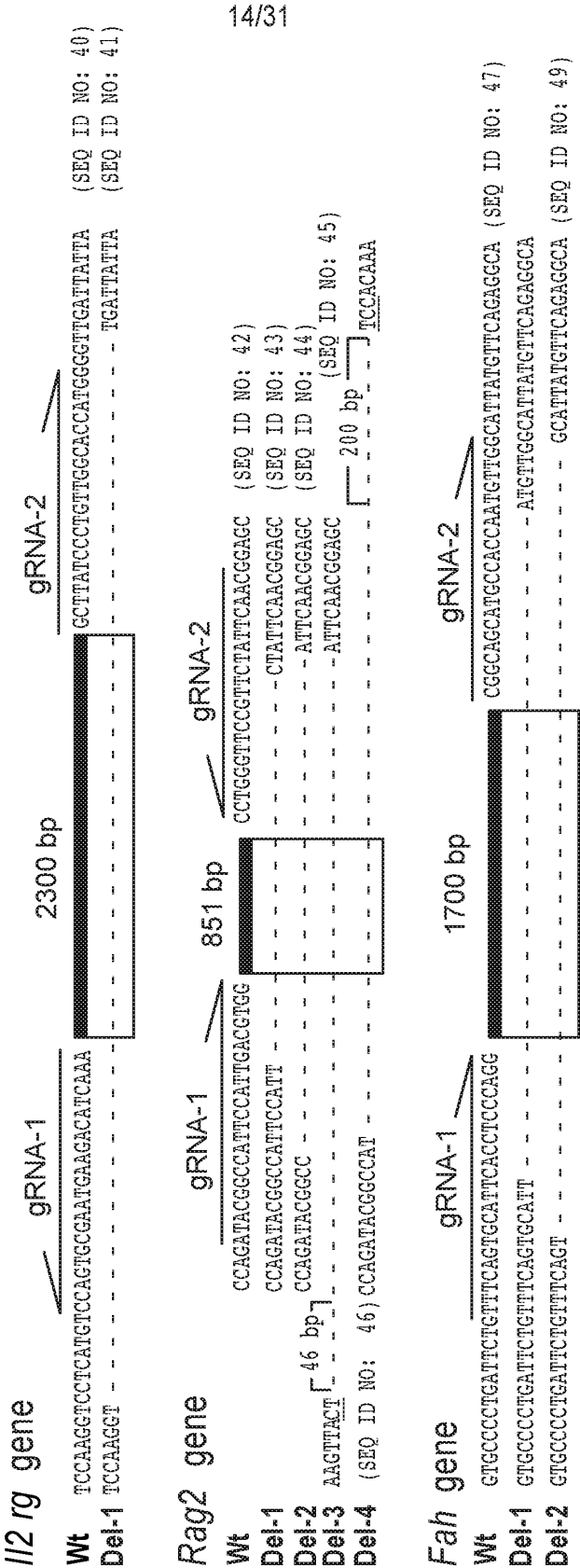
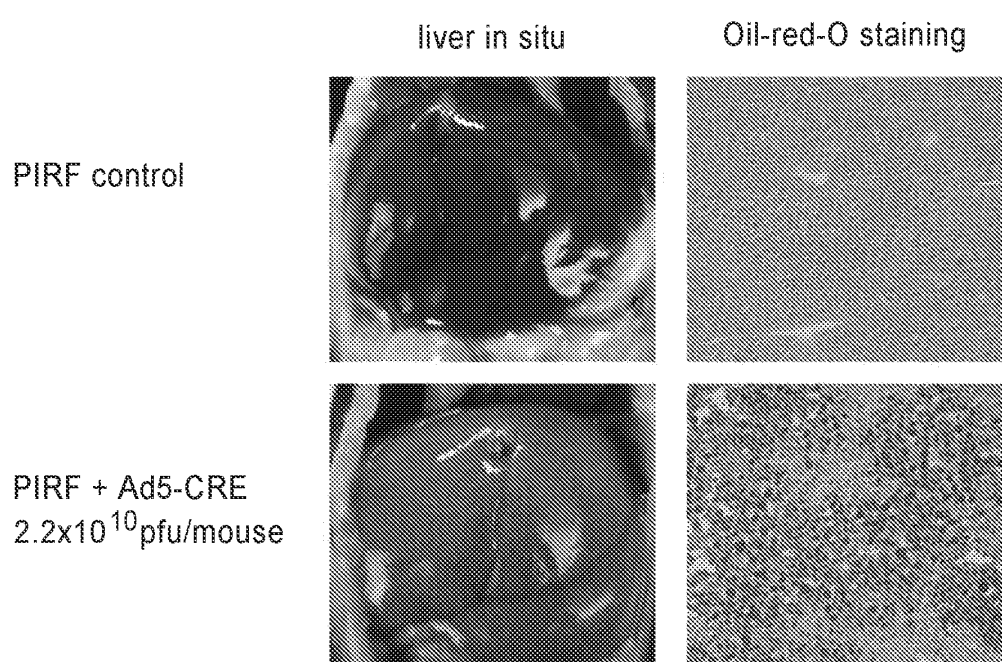


Figure 7B

Gene KO	Deletion size (bp)	Protein modification
Il2 KO Del-1	2422bp	Frame shift from aminoacid 28: (SEQ ID NO: 50) LCWHYVQRQGECAVAKLAPLTGIPWPSFLHCGIWNPD SKTHGADET+STOP
Rag2 KO Del-1	871bp	Frame shift from aminoacid 143: ILFNGAQ+STOP (SEQ ID NO: 51)
Rag2 KO Del-2	877bp	Frame shift from aminoacid 141: IQRSSINPP+STOP (SEQ ID NO: 52)
Rag2 KO Del-3	936bp	Frame shift from aminoacid 122: IQRSSINPP+STOP (SEQ ID NO: 53)
Rag2 KO Del-4	1088bp	Frame shift from aminoacid 142: TKKALGKS+STOP (SEQ ID NO: 54)
Fah KO Del-1	1717bp	Frame shift from aminoacid 107: (SEQ ID NO: 55) LCWHYVQRQGECAVAKLAPLTGIPWPSFLHCGIWNPD SKTHGADET+STOP
Fah KO Del-2	1720bp	Frame shift from aminoacid 107: (SEQ ID NO: 56) LCSEARRMRCCQIGSTYLWDTMAELPPLWLEPRFEDPWGR+STOP

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Figure 8



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Figure 9

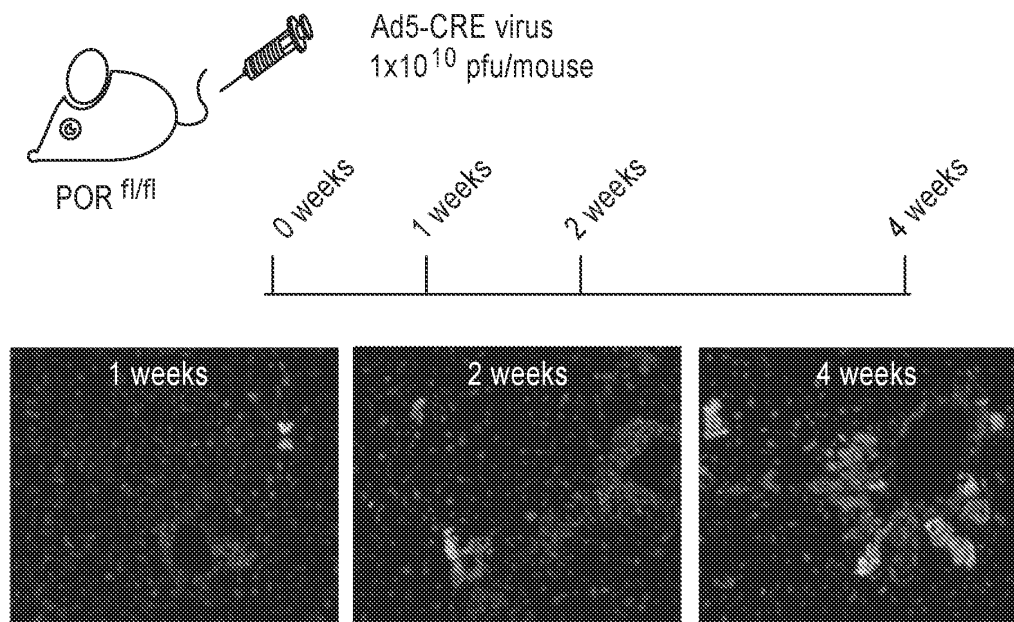


Figure 10

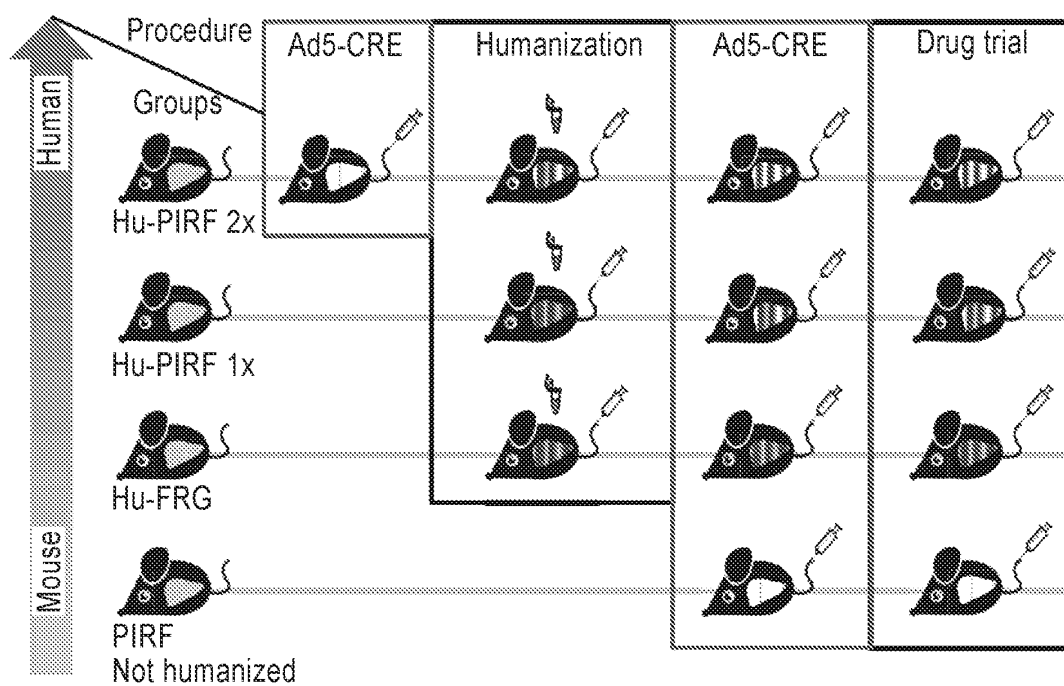


Figure 11A

Alb-CRE^{+/-}/PDR^{c/+}

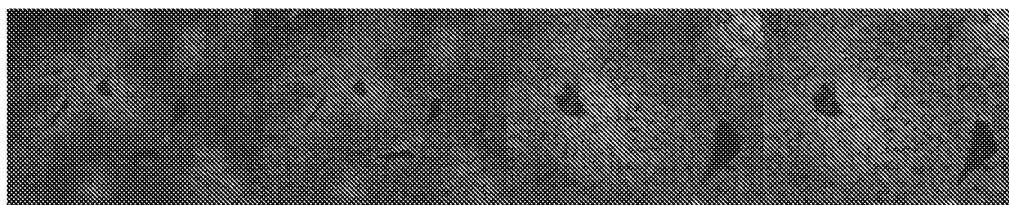
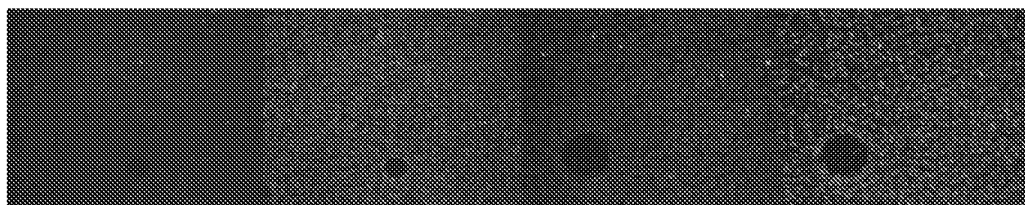


Figure 11B

Alb-CRE^{+/-}/PDR^{c/c}



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Figure 12A

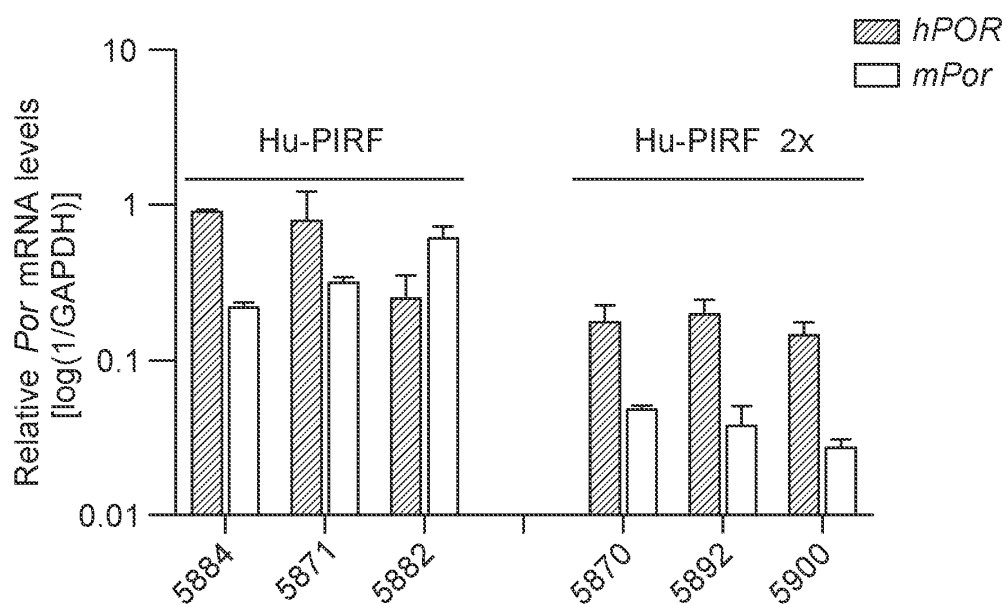
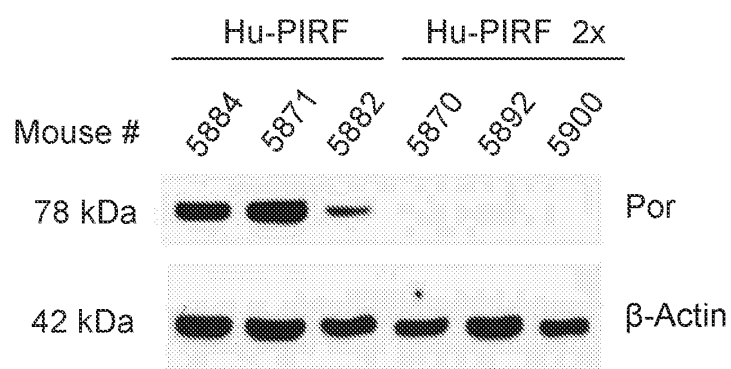


Figure 12B



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Figure 13A

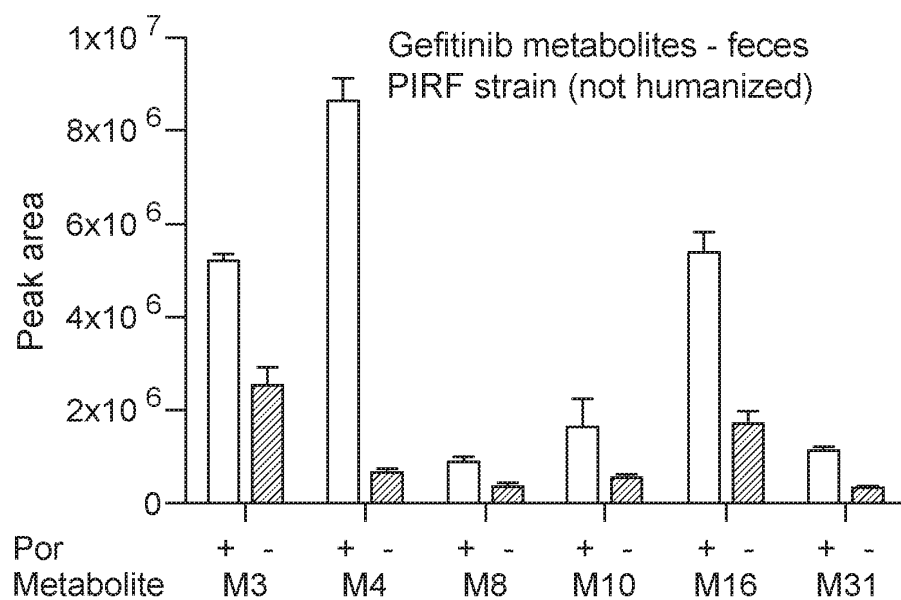
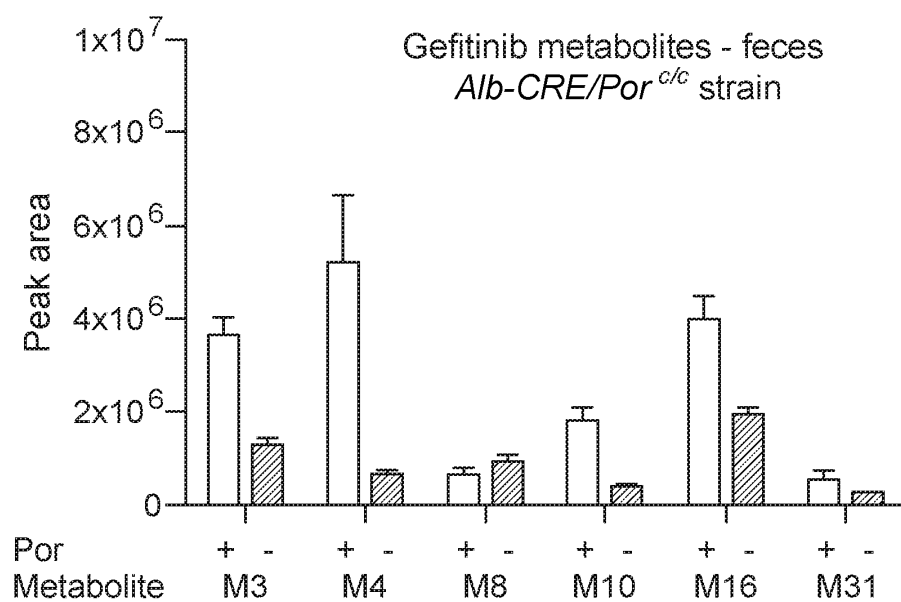


Figure 13B



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Figure 14A

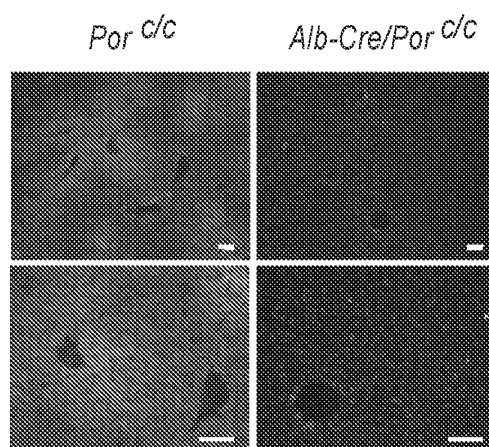


Figure 14B

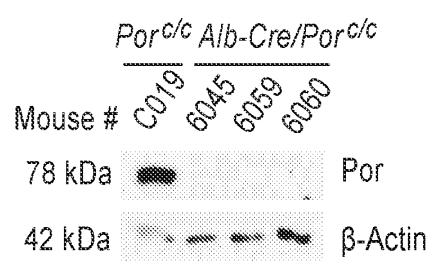
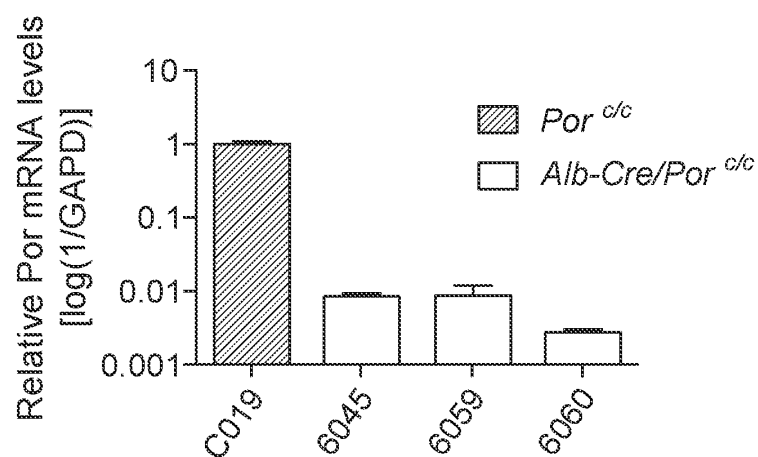
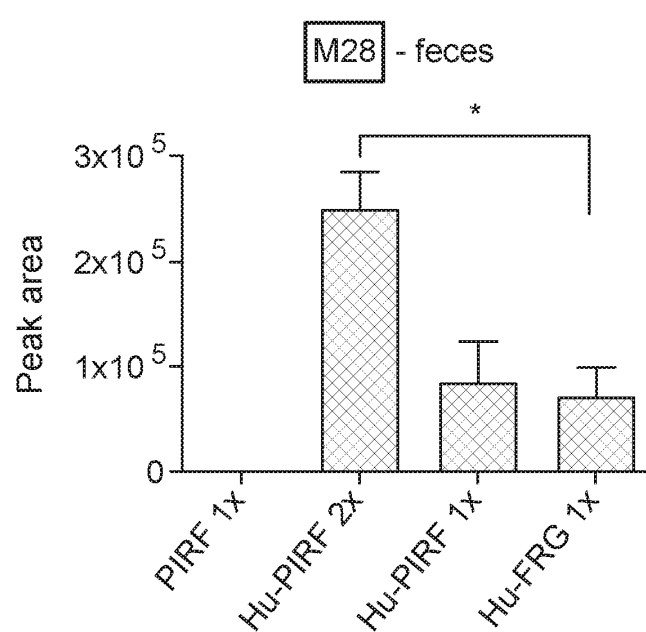


Figure 14C



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Figure 15



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Figure 16A

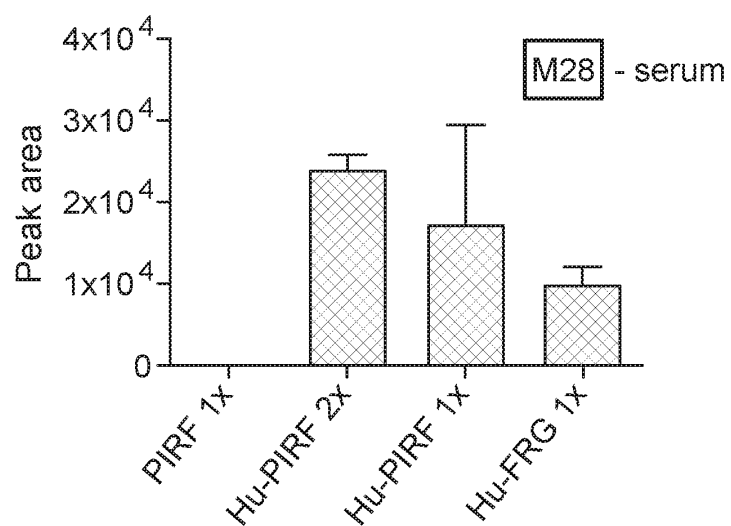
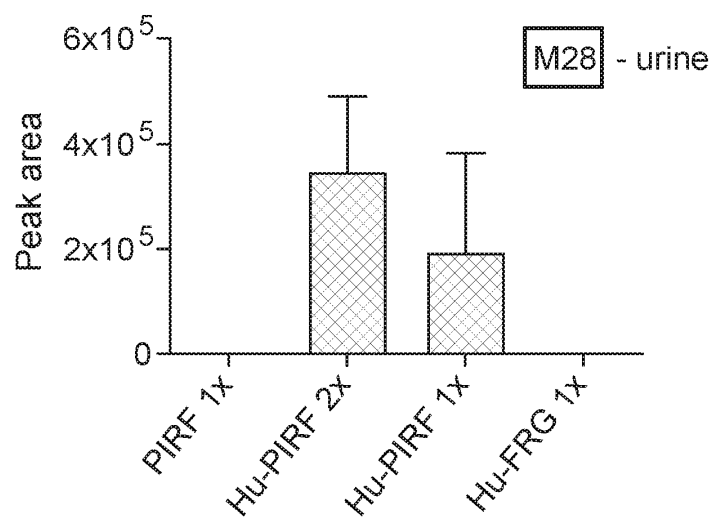
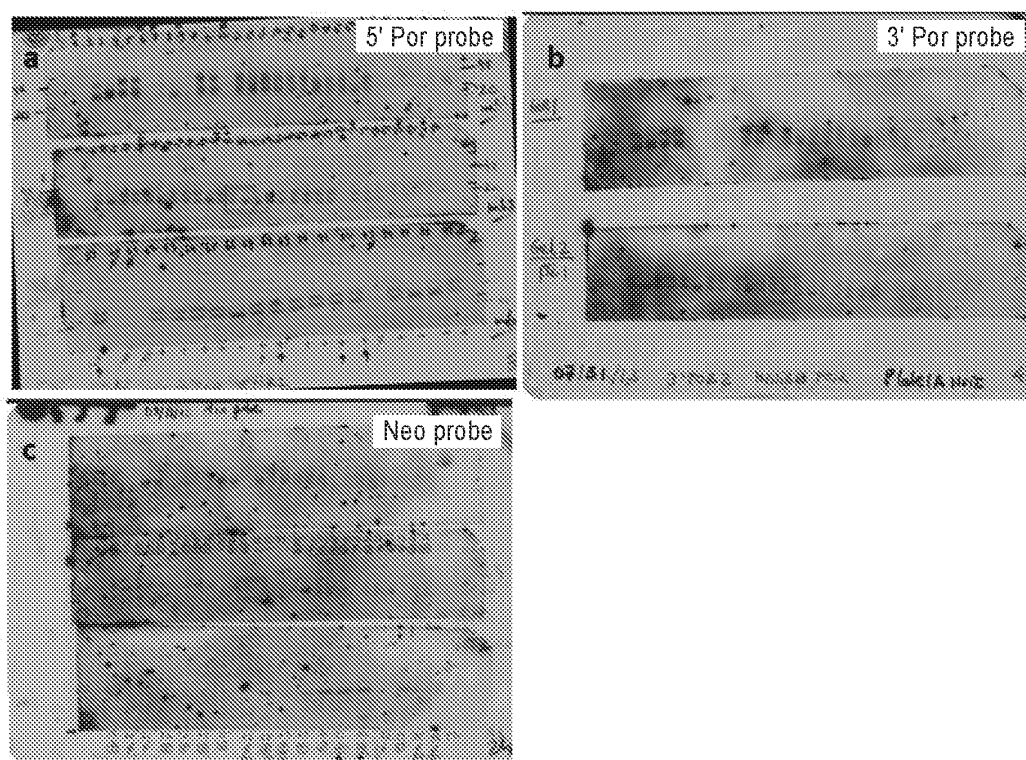


Figure 16B



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Figure 17



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Figure 18

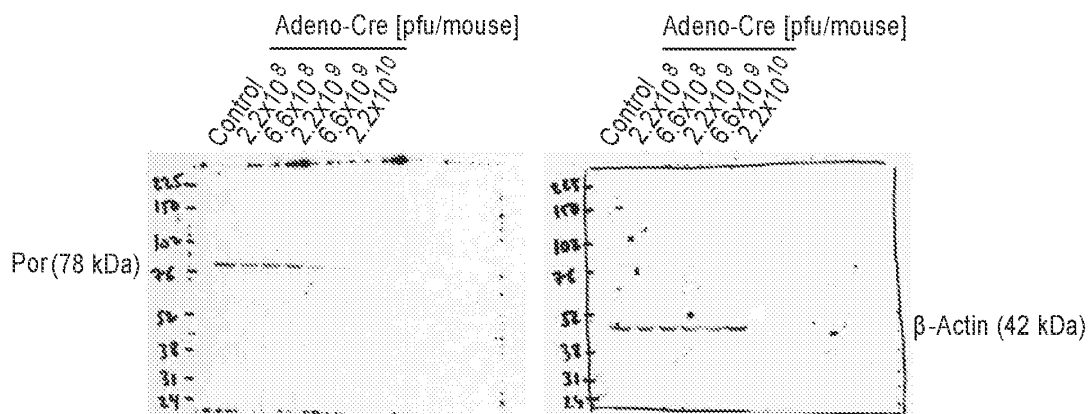


Figure 19A

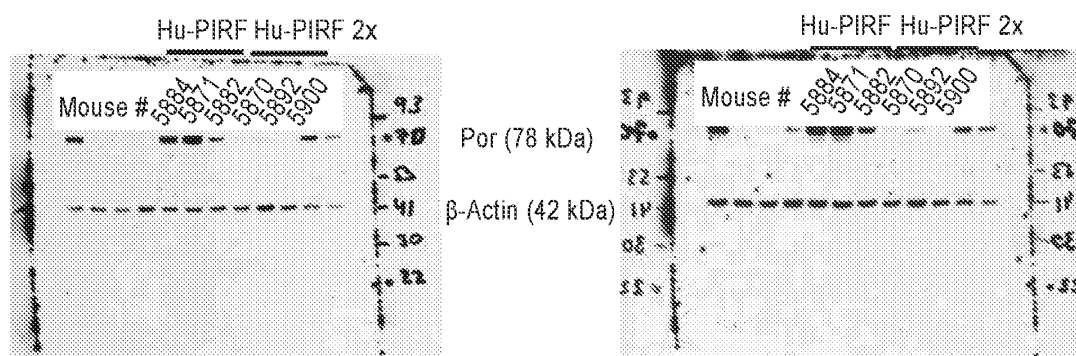


Figure 19B

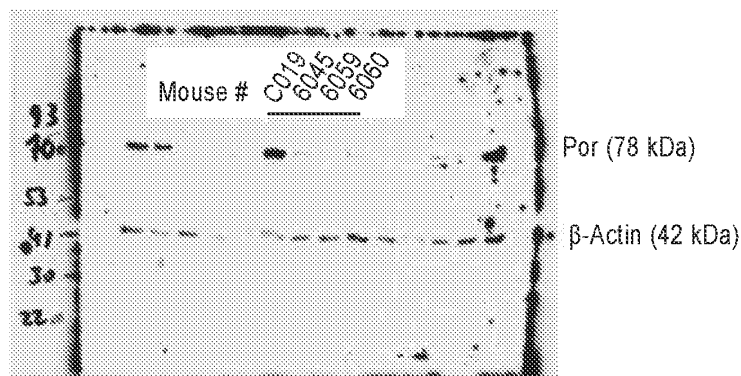
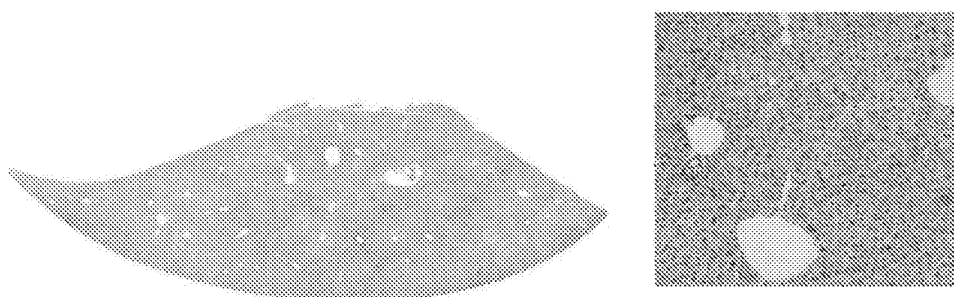


Figure 20



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Figure 21A

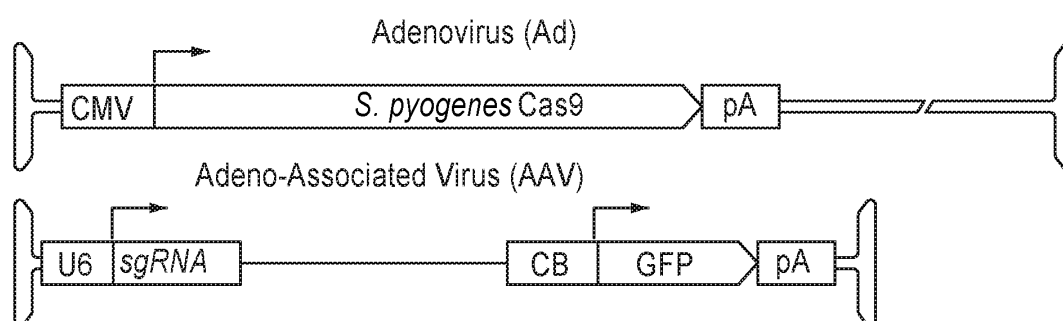


Figure 21B

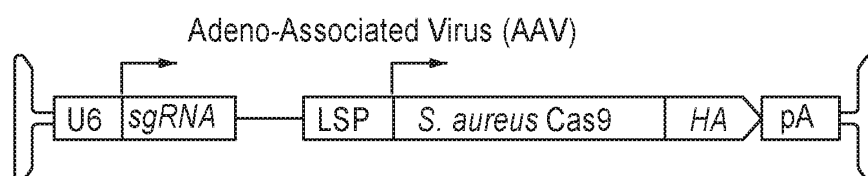


Figure 22

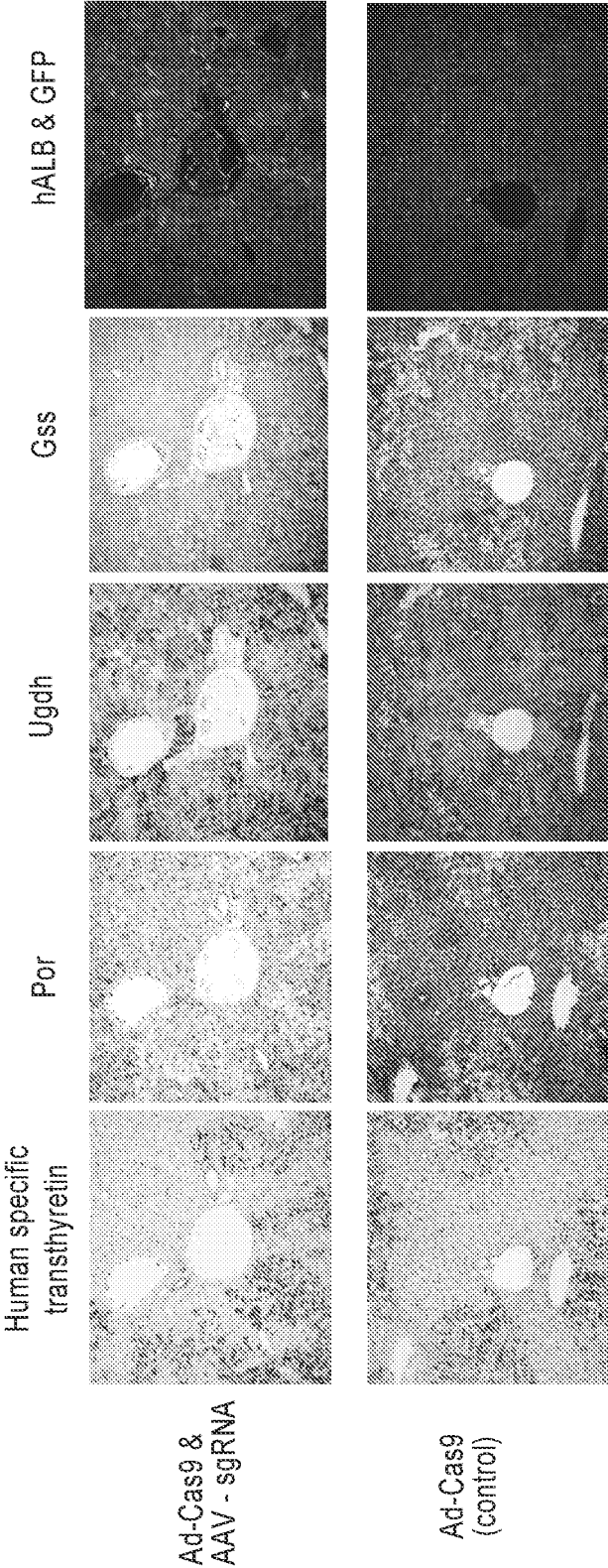


Figure 23

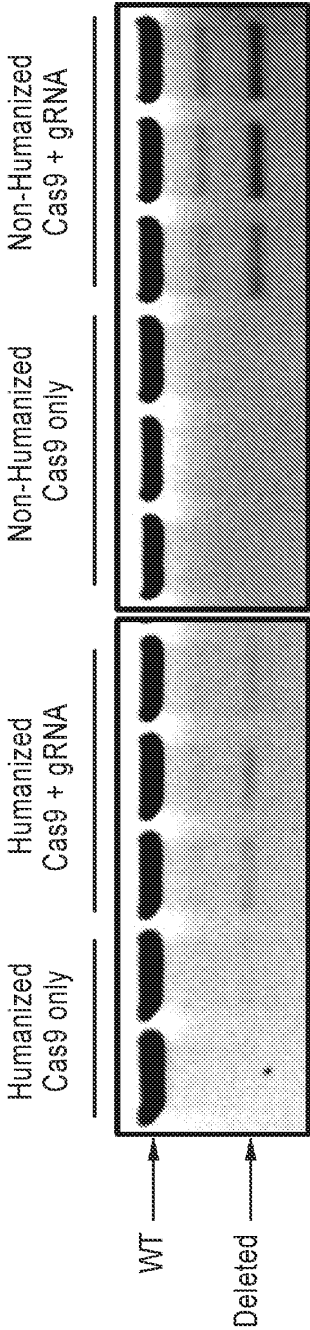
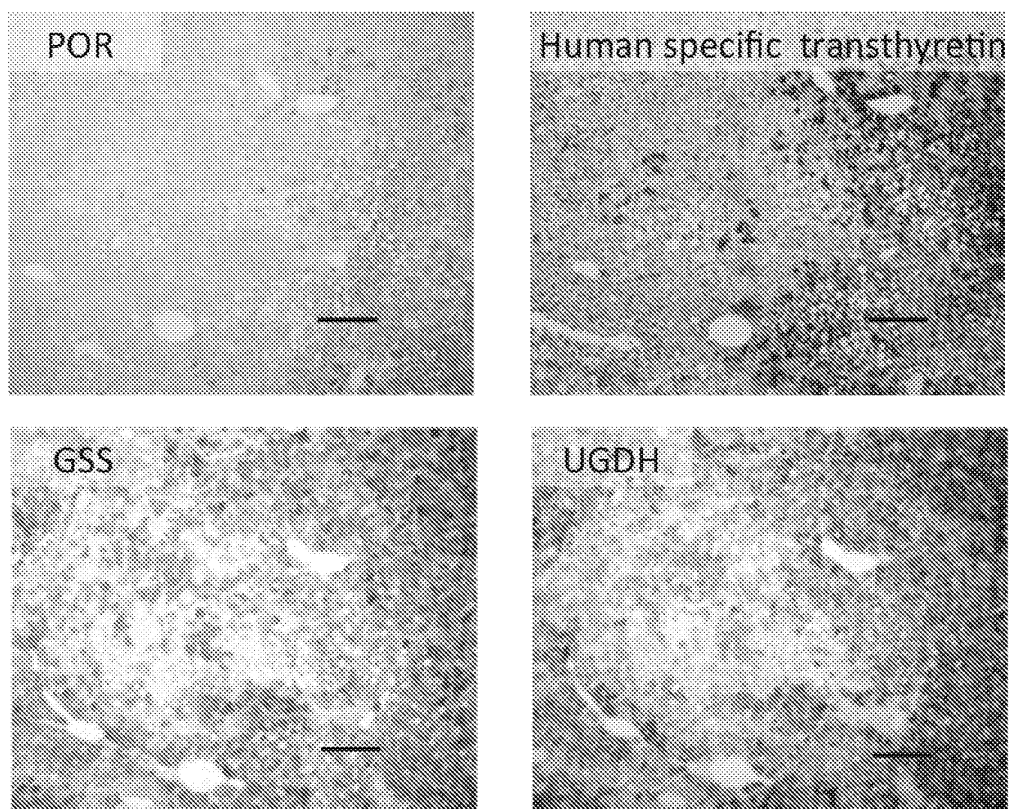


Figure 24



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Figure 25A

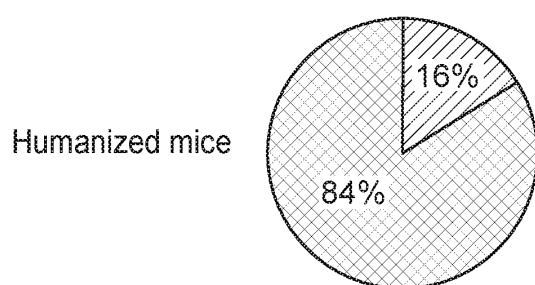


Figure 25B

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UGDH deleted

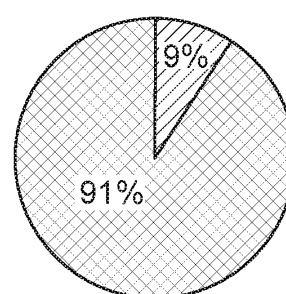


Figure 25C

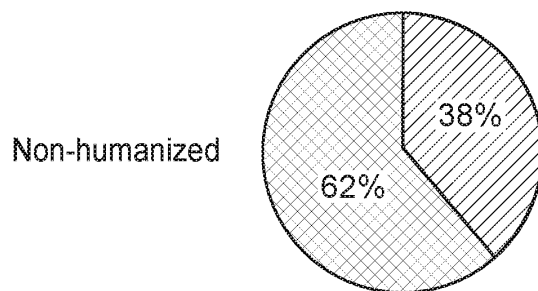


Figure 25D

