

Supplementary Table 1. ECL3 sequences of chimeric SLC7A1 proteins

Chimera Construct	Background SLC7A1 gene	ECL3 sequence
MmWT	MmSLC7A1	QLTE---KNFS---CNNNDT-NVKYEGGGFMPF
MmCh1	MmSLC7A1	QLTEEDFGNTSGRLCLNNDTKEGKPGVGGFMPF
MmCh2	MmSLC7A1	QLTEEDFGNTSGRLCNNNDT-NVKYEGGGFMPF
MmCh3	MmSLC7A1	QLTE---KNFS---CLNNDTKEGKPGVGGFMPF
HsWT	HsSLC7A1	QLTEEDFGNTSGRLCLNNDTKEGKPGVGGFMPF
HsCh1	HsSLC7A1	QLTE----KNFS--CNNNDT-NVKYEGGGFMPF
HsCh2	HsSLC7A1	QLTE-----KNFS--CLNNDTKEGKPGVGGFMPF
HsCh3	HsSLC7A1	QLTEEDFGNTSGRLCNNNDT-NVKYEGGGFMPF