CONDITION NAME	GENE (and Refseq)	CARRIER RATES
FRAGILE X SYNDROME	FMR1 (NM_ 001185076.1)	1 in 178
ALPHA THALASSEMIA	HBA1/HBA2 (NM_ 000553.4; NM_ 000517.4)	1 in 25
CYSTIC FIBROSIS	CFTR (NM_ 000492.3)	1 in 25
SPINAL MUSCULAR ATROPHY	SMN1 (NM_ 000344.3)	1 IN 35
NON SYNDROMIC HEARING LOSS	GJB2 (NM_ 004004.5)	1 in 42
DUCHENNE/BECKER MUSCULAR DYSTROPHY	DMD (NM_ 004006.2)	1 in 500
BETA-HEMOGLOBINOPATHIES	HBB (NM_ 000518.4)	2-3%
PHENYLKETONURIA	PAH (NM_ 000277.1)	Caucasian: 1 in 50; Sicily: 1 in 26