

Table S5

<b>O: observed, E: expected, R: O/E ratio</b>				
<b>Level</b>	<b>OMIM #</b>	<b>Category name</b>	<b>Statistics</b>	<b>P-value</b>
1	300157	Mental retardation	[O:4; E:0.53; R:7.55]	1.88E-03
1	300220	Chorioathetosis with mental retardation and abnormal behavior	[O:1; E:0.02; R:50]	2.44E-02
1	605194	Double-outlet right ventricle	[O:1; E:0.02; R:50]	2.44E-02
2	605194	Heterotaxy, visceral	[O:1; E:0.02; R:50]	2.44E-02
2	162200	Melanoma, desmoplastic neurotropic	[O:1; E:0.02; R:50]	2.44E-02
1	300032	Mental retardation-hypotonic facies syndrome	[O:1; E:0.02; R:50]	2.44E-02
2	300032	Mental retardation-hypotonic facies syndrome, X-linked	[O:1; E:0.02; R:50]	2.44E-02
1	609309	Muir-Torre syndrome	[O:1; E:0.02; R:50]	2.44E-02
1	607100	Nephronophthisis	[O:1; E:0.02; R:50]	2.44E-02
2	162200	Neurofibromatosis, familial spinal	[O:1; E:0.02; R:50]	2.44E-02
2	162200	Neurofibromatosis, type 1	[O:1; E:0.02; R:50]	2.44E-02
1	162200	Neurofibromatosis-Noonan syndrome	[O:1; E:0.02; R:50]	2.44E-02
1	162200	Pseudarthrosis	[O:1; E:0.02; R:50]	2.44E-02
2	162200	Pseudarthrosis, tibial	[O:1; E:0.02; R:50]	2.44E-02
3	162200	Pseudarthrosis, tibial, in NF1	[O:1; E:0.02; R:50]	2.44E-02
3	314310	Renal cell carcinoma, papillary, 1	[O:1; E:0.02; R:50]	2.44E-02
1	605194	Transposition of the great arteries	[O:1; E:0.02; R:50]	2.44E-02
1	162200	Watson syndrome	[O:1; E:0.02; R:50]	2.44E-02
2	300203	Epileptic encephalopathy, early infantile	[O:1; E:0.04; R:25]	3.63E-02
1	605194	Heterotaxy	[O:1; E:0.04; R:25]	3.63E-02
1	603930	Hyperekplexia	[O:1; E:0.04; R:25]	3.63E-02
1	601969	Medulloblastoma	[O:1; E:0.04; R:25]	3.63E-02
1	300560	Mental retardation syndrome	[O:1; E:0.04; R:25]	3.63E-02
2	300560	Mental retardation syndrome, X-linked	[O:1; E:0.04; R:25]	3.63E-02
2	300697	Mental retardation, X-linked syndromic	[O:1; E:0.04; R:25]	3.63E-02
1	603930	Molybdenum cofactor deficiency	[O:1; E:0.04; R:25]	3.63E-02
2	314310	Renal cell carcinoma, papillary	[O:1; E:0.04; R:25]	3.63E-02
1	300195	Alport syndrome	[O:1; E:0.05; R:20]	4.81E-02
1	300203	Epileptic encephalopathy	[O:1; E:0.05; R:20]	4.81E-02
2	162200	Leukemia, juvenile myelomonocytic	[O:1; E:0.05; R:20]	4.81E-02