Gene	Disease	Reference	#Diseases	Highly Sign.	Significant	Specific	Highest rank	aBandApart concept	Band	voc	bands	links	docs	p-value
chromosome 1			5											
UROD	porphyria cutanea tarda			1	1	0	1 porphyria cutanea tarda	1p34.1	omim	**1p34**	1/402		2	7,00E-05
GBA	Gaucher disease			1	1	1	1 Gaucher disease	1q21	omim	**1q21**	13/858		14	2,40E-22
GLC1A	Glaucoma			1	1	1	0 Glaucoma	1q24.3	omim	1q24	24/383		123	2,21E-26
HPC1	Prostate Cancer			1	1	1	0 Prostate Cancer	1q25.3	omim	8p22	52/474		486	0,00E+00
PS2	Alzheimer disease	D		0	1	1	0 Alzheimer disease	1q42.13	omim	1q42.1	2/276		46	2,38E-03
			5	4	5	4	2							
chromosome 2			4											
ETM2	Essential Tremor	A		1	1	1	1 tremor	2p24.1	omim	**2p24.1**	6/169		54	8,29E-10
MSH2	Colon cancer	B		1	1	1	0 Colon cancer	2p21	omim	5q21	21/368		151	2,26E-20
MSH6	Colon cancer	B		1	1	1	0 Colon cancer	2p16.3	see B	see B	see B	see B	see B	
PAX3	Waardenb**e**rg syndrome			1	1	1	1 waardenb**u**rg syndrome	2q35	omim	**2q35**	7/317		22	8,05E-11
			4	4	4	4	2							
chromosome 3			4											
VHL	Von Hippel-Lindau			1	1	1	1 von hippel lindau disease	3p26-p25	omim	3p26.2	36/284		77	0,00E+00
MLH1	Colon Cancer	B		1	1	1	0 Colon cancer	3p21.3	omim	see B	see B	see B	see B	
SCLC1	Lung Cancer			1	1	1	0 Lung Cancer	3p23-p21	omim	3p14	49/391		570	0,00E+00
ETM1	Essential Tremor	A		1	1	1	1 tremor	3q13	omim	see A	see A	see A	see A	
			4	4	4	4	2							
chromosome 4			6											
EVC	Ellis-van-Creveld			1	1	1	1 ellis van creveld syndrome	4p16	omim	**4p16**	7/229		11	1,67E-14
HD	Huntington Disease			1	1	1	1 huntington disease	4p16.3	omim	4p16.3	42/311		63	0,00E+00
FGFR3	Achondroplasia			1	1	1	1 Achondroplasia	4p16.3	omim	4p16.3	10/311		17	2,11E-18
NRCLP	Narcolepsy			1	1	1	1 Narcolepsy	4p13-q21	omim	**4cen**	1/57		6	2,07E-05
SNCA	Parkinson Disease			1	1	1	0 Parkinson Disease	4q21	omim	1ptel	4/338		17	9,72E-08
FOP	Fibrodysplasia ossificans progressiv			1	1	1	0 Fibrodysplasia ossificans progressiva	4q27-q31	omim	17q22	2/400		5	5,68E-06

			6	**6**	**6**	**6**	**4**							
chromosome 5			5											
SRD5A1	Steroid 5-alpha reductase			**0**	**0**	**0**	**0**	Steroid 5-alpha reductase	5p15 / 2p23					
CKN1	Cockayne syndrome			**0**	**0**	**0**	**0**	cockayne syndrome	5q12	omim	10q21.1	1/104	19	7,77E-04
SMN1	Spinal muscular atrophy			**1**	**1**	**1**	**1**	spinal muscular atrophy	5q12.2-q13.3	omim	5q11.2	45/176	185	0,00E+00
Asthma	Asthma			**1**	**1**	**1**	**1**	asthma	2q22 | **5q31** | **5q31.1**	omim	**5q31.3**	54/384	252	0,00E+00
DTD	Diastrophic dysplasia			**1**	**1**	**1**	**0**	Diastrophic dysplasia	5q32-q33.1	omim	5q31	6/629	10	9,95E-10
			5	**3**	**3**	**3**	**2**							
chromosome 6			5											
SCA1	Spinocerebellar ataxia			**1**	**1**	**1**	**0**	Spinocerebellar ataxia	6p23	omim	12q24.1	16/258	129	1,89E-17
HFE	Hereditary hemochromatosis			**1**	**1**	**1**	**1**	hemochromatosis	6p21.3	omim	**6p21.3**	22/535	55	6,58E-29
CYP21A	Adrenal hyperplasia, congenital			**1**	**1**	**1**	**1**	adrenal hyperplasia	6p21.3	omim	**6p21.3**	7/535	29	7,12E-10
IDDM1	Diabetes, type 1			**1**	**1**	**0**	**0**	diabetes	6q24.31	omim	1q21.2	18/473	292	1,32E-10
EPM2A	Epilepsy			**1**	**1**	**1**	**0**	Epilepsy	6q24	omim	15q12	33/668	346	6,35E-18
			5	**5**	**5**	**4**	**2**							
chromosome 7			5											
GCK	Diabetes, type 1	C		**0**	**0**	**1**	**0**	diabetes mellitus	7p13	omim			444	
ELN	Williams syndrome			**1**	**1**	**1**	**1**	Williams syndrome	7q11.2	omim	**7q11.23**	88/301	106	0,00E+00
CFTR	Cystic fibrosis			**1**	**1**	**0**	**1**	Cystic fibrosis	7q31.2	omim	**7q31**	29/459	86	0,00E+00
Pendrin	Pendred syndrome			**1**	**1**	**1**	**1**	Pendred syndrome	7q31	omim	**7q31**	16/459	23	8,72E-28
OB	Obesity			**1**	**1**	**1**	**0**	obesity	7q31.3		15q12	37/668	289	2,17E-24
			5	**4**	**4**	**4**	**3**							
chromosome 8			2											
WRN	Werner syndrome			**1**	**1**	**1**	**1**	Werner syndrome	8p12-p11.2	omim	**8p12**	17/281	25	1,00E-32
MYC	Burkitt lymphoma			**1**	**1**	**0**	**1**	Burkitt lymphoma	8q24.12-q24.13		**8q24**	21/653	68	4,85E-23
			2	**2**	**2**	**1**	**2**							
chromosome 9			5											
CDKN2	Malignant melanoma			**1**	**1**	**1**	**1**	Malignant melanoma	9p21	omim	**9p21**	40/1178	149	5,23E-30
FRDA	Friedreich's ataxia			**1**	**1**	**1**	**1**	friedreich ataxia	9q13	omim	**9q13**	23/189	27	0,00E+00
ABC1	Tangier disease			**1**	**1**	**1**	**1**	Tangier disease	9q22-q31	omim	**9q31**	6/255	9	1,76E-12
TSC1	Tuberous sclerosis			**1**	**1**	**1**	**1**	Tuberous sclerosis	9q34	omim	16p13.3	62/369	145	0,00E+00
ABL	Leukemia, chronic myeloid	F		**1**	**1**	**0**	**1**	myeloid leukemia	9q34.1 / 22	omim	9q34	42/676	235	0,00E+00

			5	**5**	**5**	**4**	**5**								
chromosome 10			2												
PAHX	Refsum disease			0	0	0	0	Refsum disease	10p13 -- 10pter-p11.2	omim	xq21.1	1/206		5,49E-05
OAT	Gyrate atrophy of the choroid and ret			0	0	0	0	chorioretinal atrophy	10q26	omim	6q13	3/142	11	2,38E-08
			2	**0**	**0**	**0**	**0**								
chromosome 11			6												
HRAS	Harvey Ras oncogene			0	1	1	0	oncogenesis	11p15.5	GO (biolo	13q14	14/773	187	4,45E-07
IDDM2	Diabetes, type 1	C		1	1	1	0	diabetes mellitus	11p15.5	see C	see C	see C	see C	see C
LQT	Long QT syndrome			1	1	1	1	long qt syndrome	11p15.5	omim	11p15.5	32/630	44	0,00E+00
VMD2	Best disease			1	1	1	0	vitelliform macular dystrophy	11q13	omim	11q12.3	5/180	9	8,74E-11
MEN1	Multiple endocrine neoplasia			0	0	0	0	multiple endocrine neoplasia iia	11q13	omim	20p12.2	1/55	1	1,15E-03
ATM	Ataxia telangiectasia			1	1	1	1	Ataxia telangiectasia	11q22.3	omim	11q23.3	74/559		0,00E+00
			6	**4**	**5**	**5**	**2**								
chromosome 12			2												
PXR1	Zellweger syndrome			0	0	0	0	zellweger syndrome	12p13.3	omim	5q2.3	1/2	14	7,90E-08
PAH	Phenylketonuria			1	1	1	1	Phenylketonuria	12q24.1	omim	12q24.1	6/258	10	4,70E-12
			2	**1**	**1**	**1**	**1**								
chromosome 13			4												
BRCA2	Breast and ovarian cancer	E		1	1	1	1	breast cancer	13q12.3	omim	13q12	61/326	1098	0,00E+00
CX26	Deafness			1	1	1	0	Deafness	13q11-q12	omim	xq21	16/242	293	2,87E-12
RB1	Retinoblastoma			1	1	0	1	Retinoblastoma	13q14.1-q14.2	omim	**13q14**	233/773	461	0,00E+00
ATP7B	Wilson's disease			1	1	1	1	Wilson disease	13q14.3-q21.1	omim	**13q14.3**	19/283	32	0,00E+00
			4	**4**	**4**	**3**	**3**								
chromosome 14			2												
PS1 (AD3)	Alzheimer disease	D		1	1	1	1	Alzheimer disease	14q24.3	omim	**14q24.3**	7/265	46	1,60E-10
SERPINA1	Alpha-1-antitrypsin deficiency			0	0	0	0		14q32.1					
			2	**1**	**1**	**1**	**1**								
chromosome 15			4												
SNRPN	Prader-Willi syndrome			1	1	1	1	prader willi syndrome	15q12, 15q11-q13, 15	omim	**15q11**	249/638	310	0,00E+00
UBE3A	Angelman syndrome			1	1	1	1	Angelman syndrome	15q11-q13, Xq28	omim	**15q11**	214/638	249	0,00E+00
FBN1	Marfan syndrome			1	1	1	1	marfan syndrome	15q21.1	omim	**15q21.1**	22/143	47	0,00E+00

HEXA	Tay-Sachs disease		1	1	1	1	tay sachs disease	15q23-q24	omim	**15q24.3**	3/120	3	1,31E-10	
		4	4	4	4	4								
chromosome 16		4												
HBA1, HBA	Thalassemia		1	1	1	1	alpha thalassemia	16pter-p13.3	omim	16p13.3	12/369	22	2,16E-20	
PKD1	Polycystic kidney disease		1	1	1	1	Polycystic kidney disease	16p13.3-p13.12	omim	16p13.3	51/369	129	0,00E+00	
FMF	Familial Mediterranean fever		1	1	1	1	Familial Mediterranean fever	16p13	omim	**16p13.3**	22/369	31	0,00E+00	
Crohn's Dis	Crohn's disease		1	1	1	1	inflamatory bowel disease	19p13, 16q12, 16p, 1	omim	**16q12**	5/126	57	9,34E-09	
		4	4	4	4	4								
chromosome 17		3												
P53	The p53 tumor suppressor protein		0	0	0	0		17p13.1	nothing					
CMT1A	Charcot–Marie–Tooth syndrome		1	1	1	1	charcot marie tooth disease	17p11.2	omim	17p12	74/350	241	0,00E+00	
BRCA1	Breast and ovarian cancer E		1	1	1	1	ovarian cancer	17q21	see E	see E	see E	see E	see E	
		3	2	2	2	2								
chromosome 18		2												
NPC1	Niemann–Pick disease		1	1	1	1	niemann pick disease	18q11-q12	omim	**18q11**	3/95	11	4,67E-09	
DPC4 / SM/	Pancreatic cancer		1	1	1	0	Pancreatic cancer	18q21.1	omim	12q21	6/161	107	8,26E-08	
		2	2	2	2	1								
chromosome 19		4												
Jak3	Severe combined immunod G		1	1	1	0	scid	19p13.1	omim	3p21.3	13/604	63	1,03E-12	
BCKDHA	Maple syrup urine disease		1	1	1	1	maple syrup urine disease	19q13.1-q13.2, 7q31	omim	**19q13.12**	2/143	5	2,58E-07	
APOE	Atherosclerosis		0	1	1	0	Atherosclerosis	19q13.2	omim	2p21	7/234	56	2,97E-10	
DMPK	Myotonic dystrophy		1	1	1	1	myotonic dystrophy	19q13.2-q13.3	omim	19q13.3	72/390	145	0,00E+00	
		4	3	4	4	2								
chromosome 20		1												
ADA	Severe combined immunod G		0	1	1	0	scid	20q13.11	see G	see G	see G	see G	see G	
		1	0	1	1	0								
chromosome 21		2												
SOD1	Amyotrophic lateral sclerosis		1	1	1	1	amyotrophic lateral sclerosis	21q22.1	omim	**21q22.1**	12/161	54	4,07E-19	
APS1	Autoimmune polyglandular syndrome		1	1	1	1	autoimmune polyglandular	21q22.3	omim	21q22.3	10/319	10	1,46E-22	
		2	2	2	2	2								
chromosome 22		4												

SGLT1	Glucose galactose malabsorption		1	1	1	1	glucose galactose malabsorption	22q13.1	omim	**22q13.1**	2/265	2	3,04E-05
DGS	DiGeorge syndrome		1	1	1	1	DiGeorge syndrome	22q11.2	omim	**22q11**	156/1092	242	0,00E+00
NF2	Neurofibromatosis		1	1	1	0	Neurofibromatosis	22q12.2	omim	**22q12**	42/405	212	0,00E+00
BCR	Leukemia, chronic myeloid F		1	1	1	1	myeloid leukemia	**22q11.21** / 9q34.1	see F	see F	see F	see F	see F
		4	**4**	**4**	**4**	**3**							
chromosome X		11											
PIG-A	Paroxysmal nocturnal hemoglobinuri		1	1	1	1	Paroxysmal nocturnal hemoglobinuria	Xp22.1	omim	**xp22.1**	2/174	5	4,66E-07
DMD	Duchenne muscular dystrophy		1	1	1	0	duchenne muscular dystrophy	Xp21.2	omim	xp21	121/360	181	0,00E+00
ATP7A	Menkes syndrome		1	1	1	1	menkes disease	Xq12-q13	omim	xq13.3	14/243	21	5,63E-28
COL4A5	Alport syndrome		1	1	1	0	alport syndrome	Xq22.3	omim	xq22	27/292	50	0,00E+00
IL2RG	Severe combined immunod G		1	1	1	0	scid	Xq13	see G	see G	see G	see G	see G
TNFSF5	Immunodeficiency with hyper-IgM		1	1	1	1	hyper igm	Xq26	omim	xq26	9/336	13	2,54E-17
HPRT1	Lesch-Nyhan syndrome		1	1	1	1	lesch nyhan syndrome	Xq26-q27.2	omim	**xq26.2**	1/228	2	2,25E-05
FMR1	Fragile X syndrome		1	1	1	1	fragile x syndrome	Xq27.3	omim	xq27	49/416	170	0,00E+00
ALD	Adrenoleukodystrophy		1	1	1	1	Adrenoleukodystrophy	Xq28	omim	**xq28**	31/908	39	0,00E+00
MECP2	Rett syndrome		1	1	1	1	rett syndrome	Xq28, Xp22	omim	**xq28**	41/908	76	0,00E+00
HEMA	Hemophilia A		1	1	1	1	Hemophilia	Xq28	omim	**xq28**	2/908	3	6,75E-06
		11	**11**	**11**	**11**	**8**							
chromosome Y		1											
SRY	Sex determination / Testes-determini		1	1	1	0	sex determination	Yp11.3	GO biol	xp21	10/360	39	2,61E-13
		1	**1**	**1**	**1**	**0**							
	number of diseases	93	80	84	79	57							