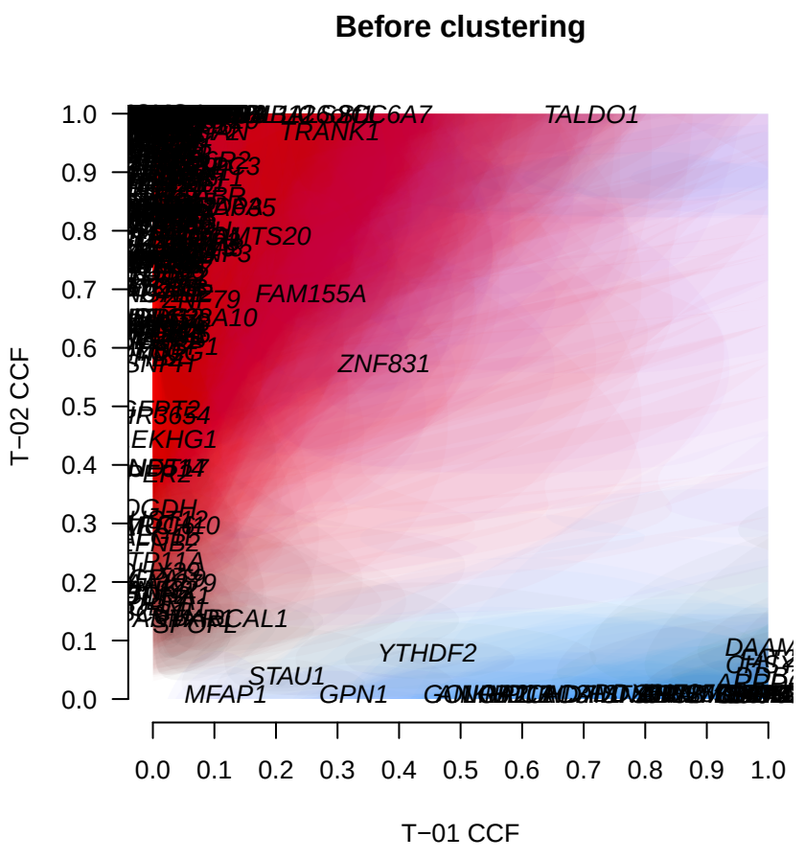
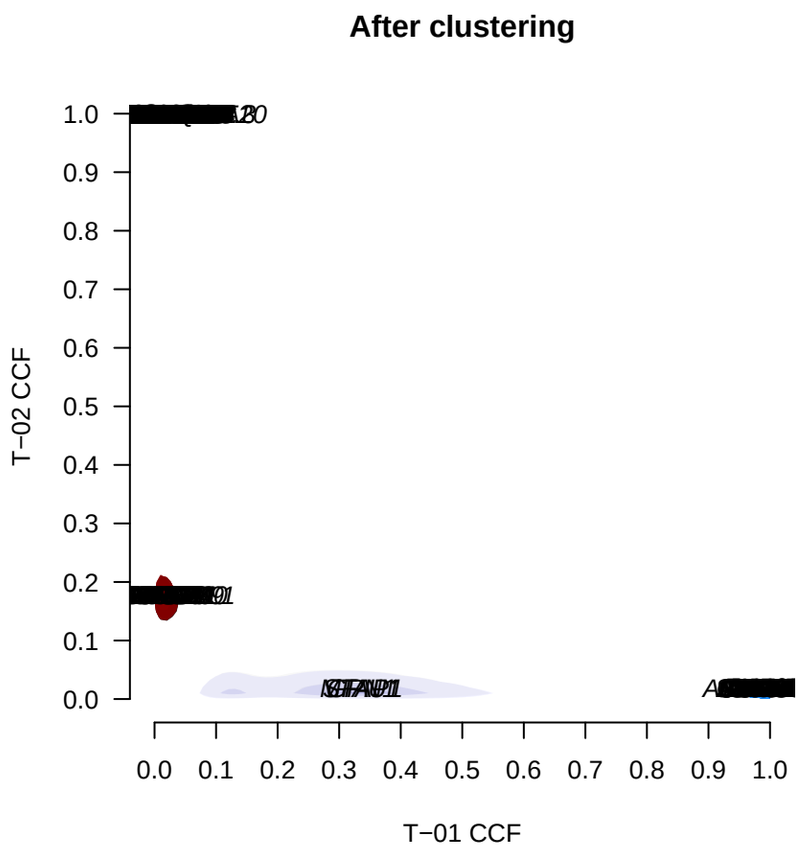
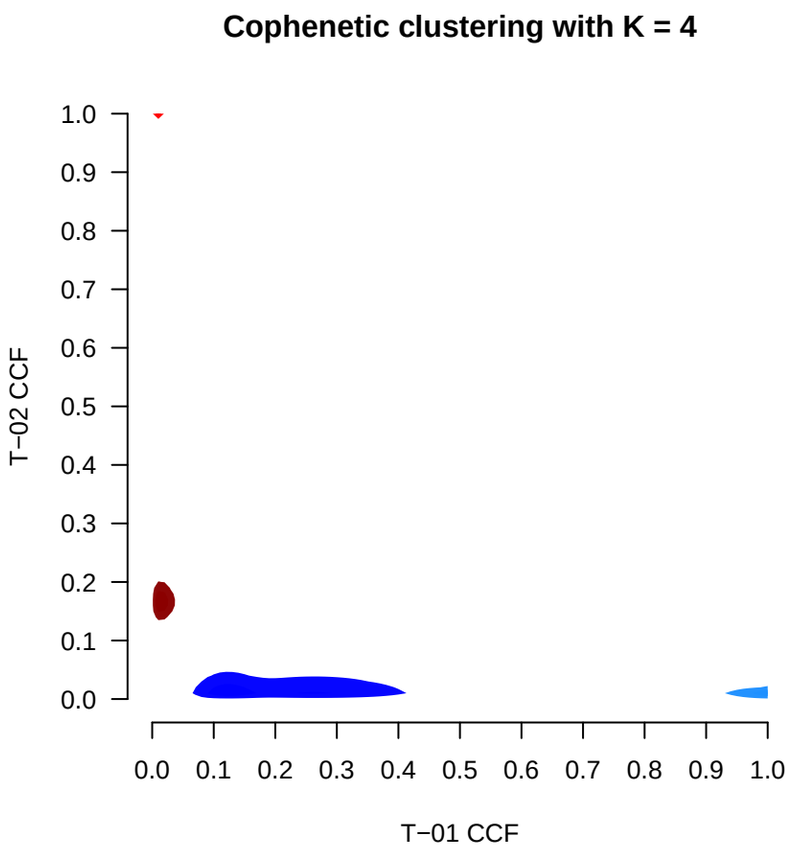
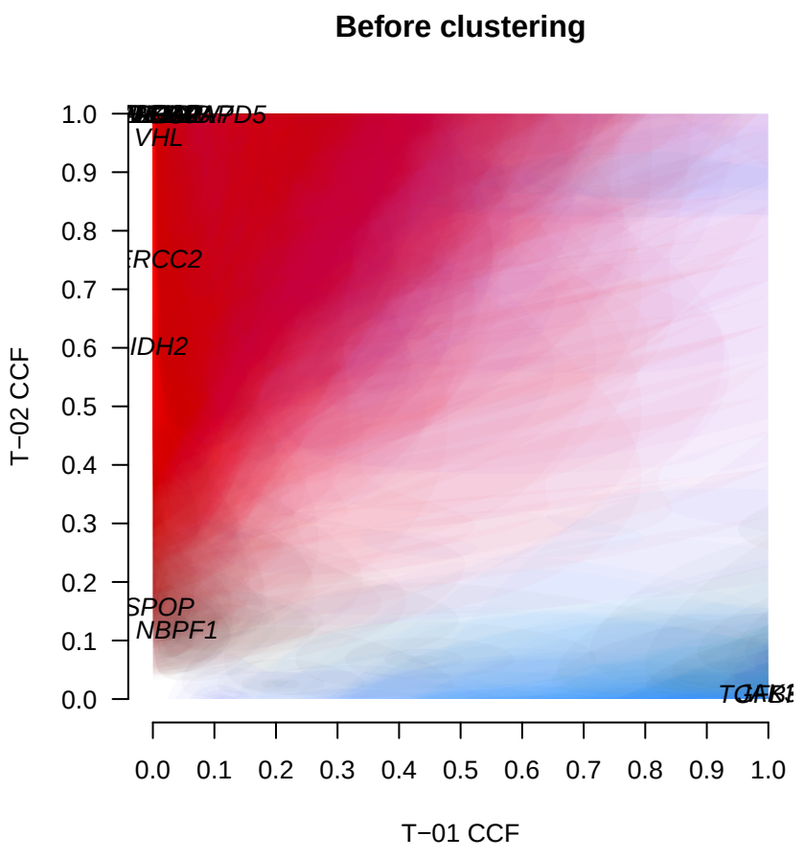
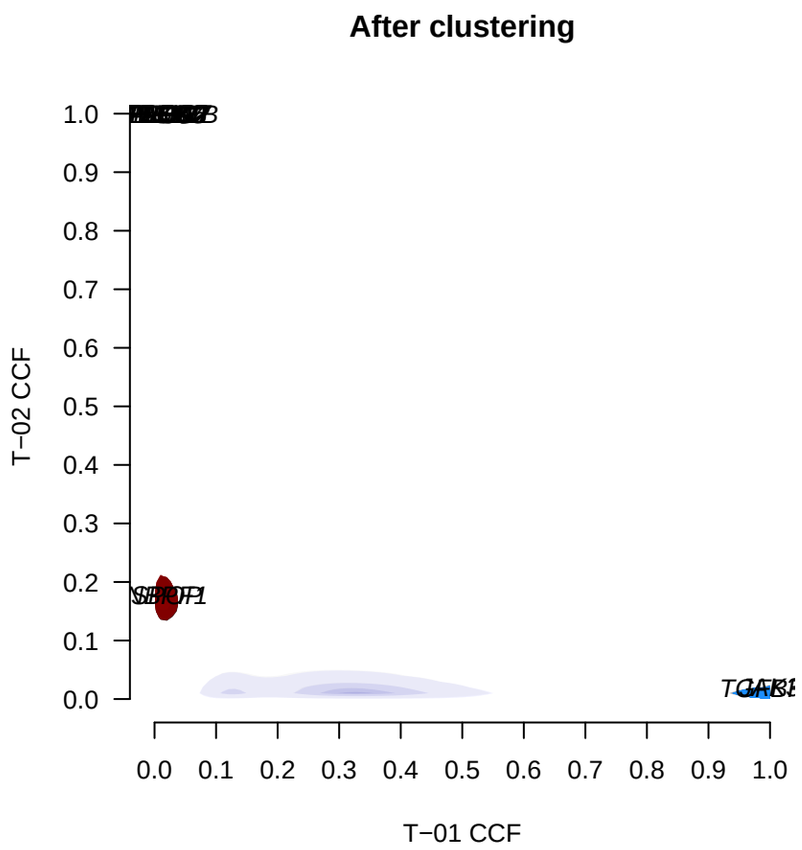
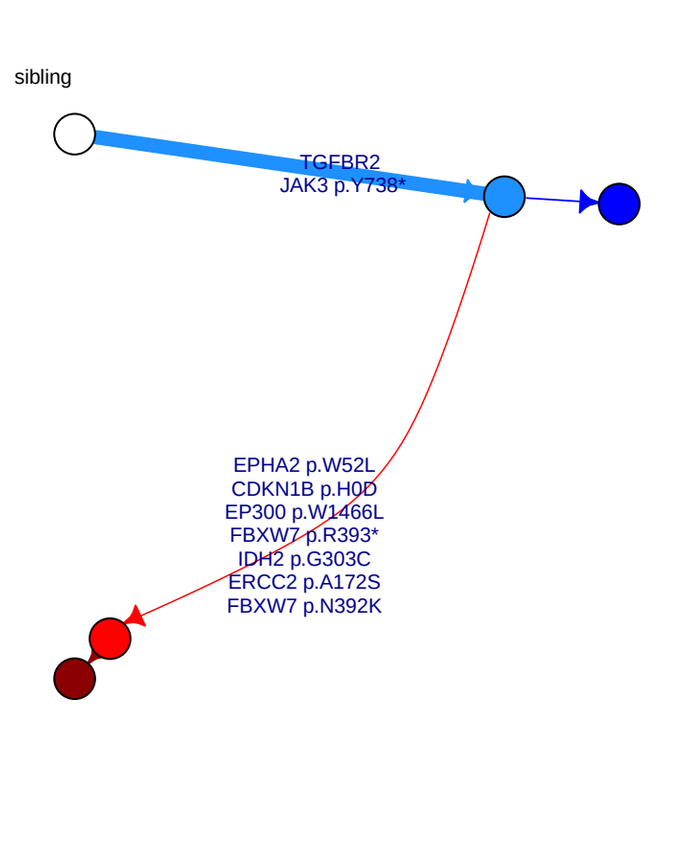

Before clustering
TALDO1
TRANK1
FAM155A
ZNF831
YTHDF2
STAU1
MFAP1
GPN1
T−02 CCF
T−01 CCF

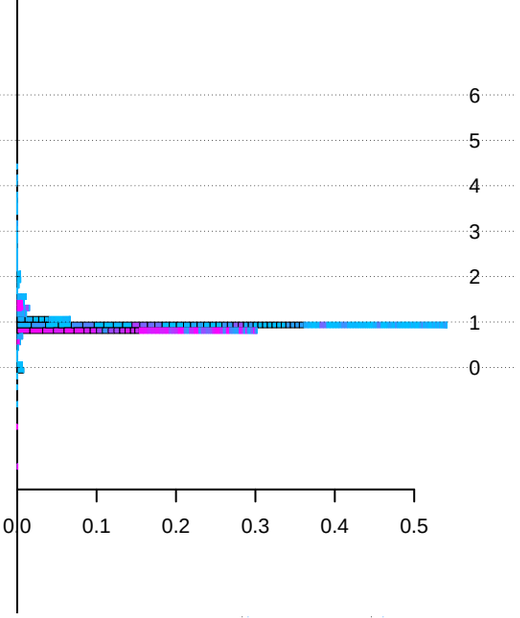

After clustering
T−02 CCF
T−01 CCF

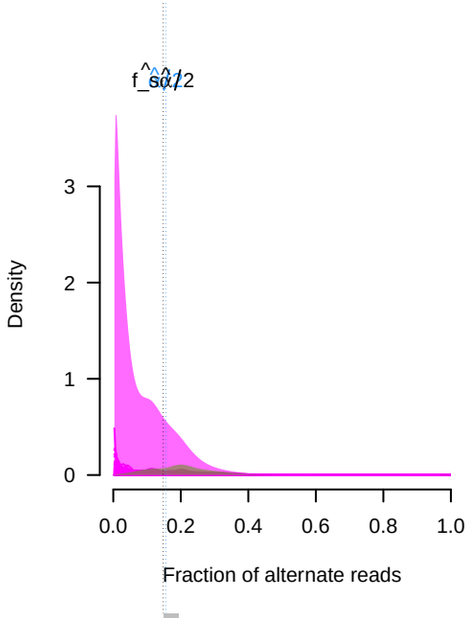

Cophenetic clustering with K = 4
T−02 CCF
T−01 CCF

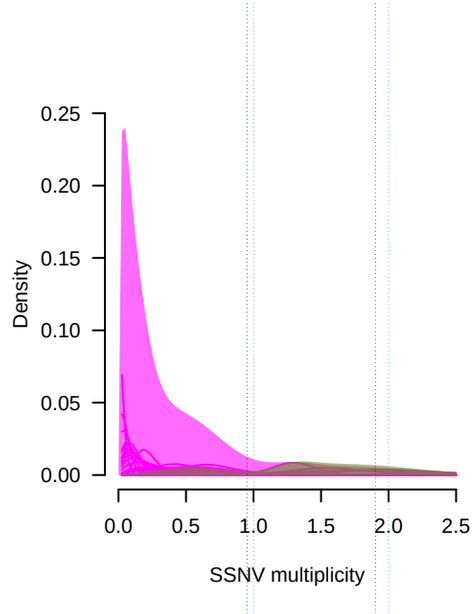

Before clustering
VHL
ERCC2
IDH2
SPOP
NBPF1
T−02 CCF
T−01 CCF

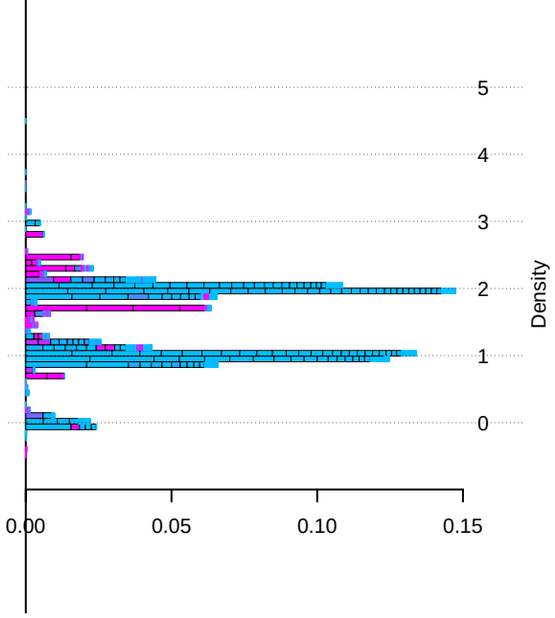

After clustering
T−02 CCF
T−01 CCF

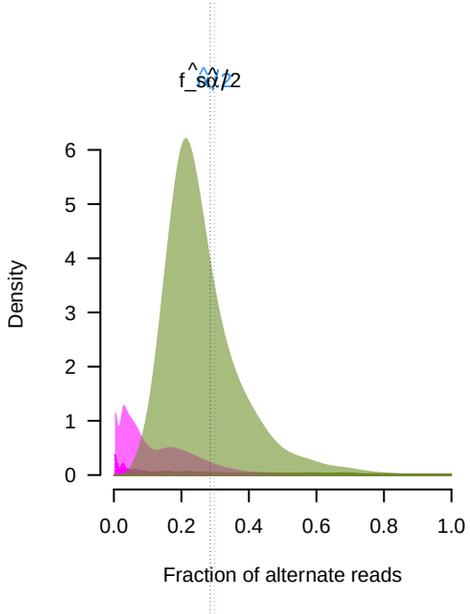

sibling
TGFBR2
JAK3 p.Y739*
EPHA2 p.W52L
CDKN1B p.H0D
EP300 p.W1466L
FBXW7 p.R393*
IDH2 p.G303C
ERCC2 p.A172S
FBXW7 p.N392K

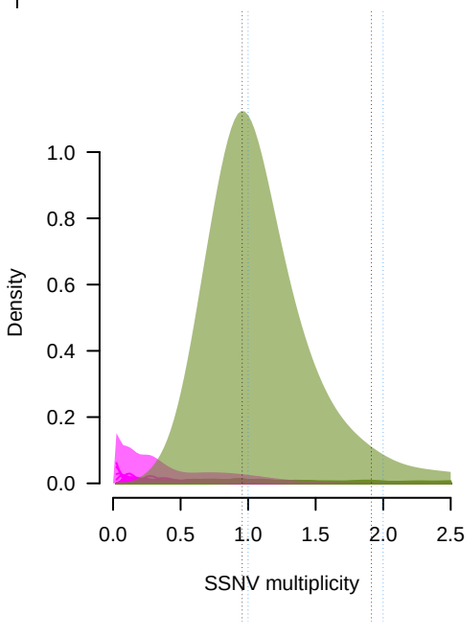

0.0
0.1
0.2
0.3
0.4
0.5
0
1
2
3
4
5
6

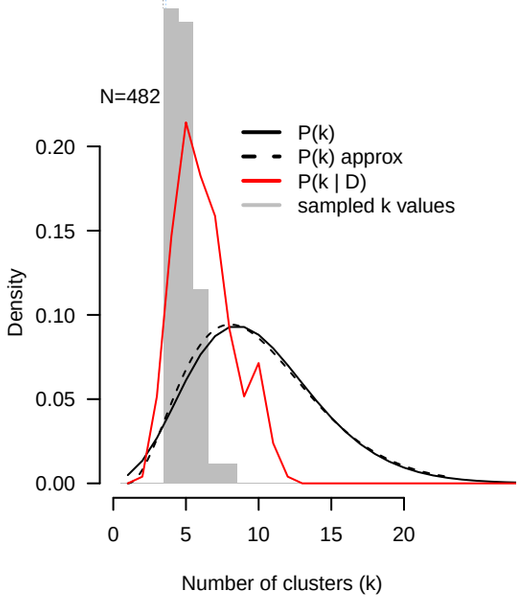

f_sq/2
Density
Fraction of alternate reads
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3

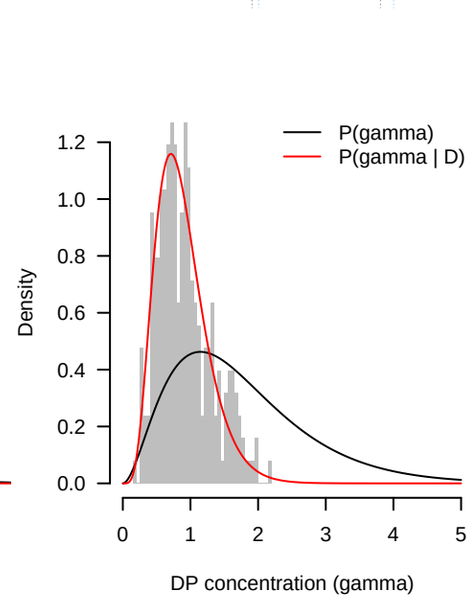

Density
SSNV multiplicity
0.00
0.05
0.10
0.15
0.20
0.25
0.0
0.5
1.0
1.5
2.0
2.5

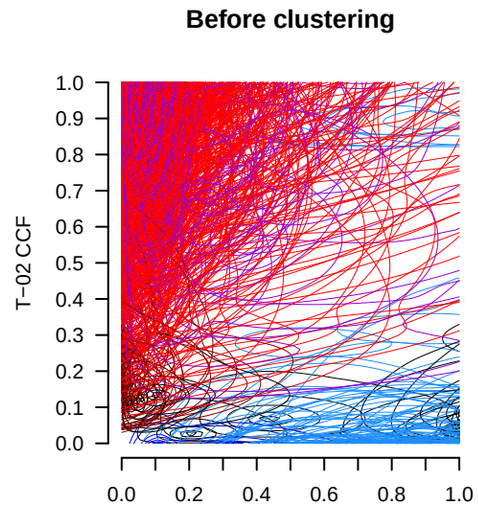

0.00
0.05
0.10
0.15
0
1
2
3
4
5

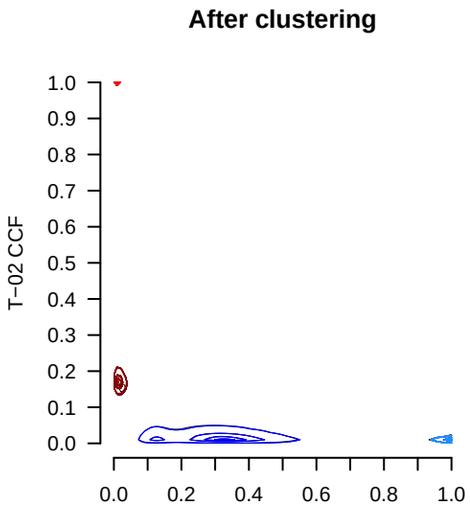

f_sq/2
Density
Fraction of alternate reads
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6


Density
SSNV multiplicity
0.0
0.2
0.4
0.6
0.8
1.0
0.0
0.5
1.0
1.5
2.0
2.5


N=482
P(k)
P(k) approx
P(k | D)
sampled k values
Density
Number of clusters (k)
0.00
0.05
0.10
0.15
0.20
0
5
10
15
20


P(gamma)
P(gamma | D)
Density
DP concentration (gamma)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
1
2
3
4
5


Before clustering
T−02 CCF
T−01 CCF
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
0.0
0.2
0.4
0.6
0.8
1.0


After clustering
T−02 CCF
T−01 CCF
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
0.0
0.2
0.4
0.6
0.8
1.0

YTHDF2, p.S22F
S_S, (5/79, 1/67)
CN: 1,1; 2>3,1

SMARCAL1, Silent
S_S, (1/72, 5/102)
CN: 1,1; 2>3,0

SPOPL, p.R124*
S_S, (1/124, 6/216)
CN: 1>0,1; 2>3,0

STAU1, p.P253S
S_S, (6/208, 1/301)
CN: 1,1; 2,2

NBPF1, Silent
S_S, (1/420, 18/666)
CN: 1,1; 2>3,1

ANTXR1, Silent
S_S, (1/189, 7/262)
CN: 1>0,1; 1,2

MFAP1, p.E312Q
S_ND, (4/117, 0/194)
CN: 1>0,1; 2,2

GPN1, p.A261T
S_ND, (9/221, 0/233)
CN: 1>0,1; 1,2

ZNF831, Silent
S_C, (1/19, 4/40)
CN: 1,1; 2,2

ADAMTS20, p.C1022F
S_C, (1/17, 5/30)
CN: 1>0,1; 2>1,1

FAM155A, p.A436E
S_C, (1/28, 5/46)
CN: 1,1; 2>1,2

SLC6A7, Silent
S_C, (1/19, 8/34)
CN: 1,1; 2>1,1

PCDHB12, Silent
S_C, (1/45, 18/57)
CN: 1,1; 2>1,1

HIVEP2, p.W1226L
S_C, (1/44, 15/87)
CN: 1>0,1; 2,2

ZNF3, p.E281D
S_C, (1/48, 10/60)
CN: 1>0,1; 1,2

AGO1, Silent
S_C, (2/79, 23/131)
CN: 1>0,1; 2>3,1

SLC38A10, Silent
S_C, (1/62, 10/69)
CN: 1>0,1; 2>3,1

MFI2, p.A712S
S_C, (1/67, 14/61)
CN: 1>2,2; 1,2

PAPD5, Silent
S_C, (1/76, 12/78)
CN: 1>2,1; 2>1,1

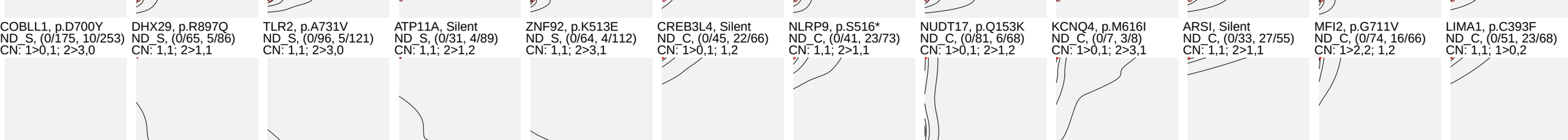
PARD6A, p.Q141K
S_C, (1/66, 17/93)
CN: 1>0,2; 1,2

AKNAD1, Silent
S_C, (1/57, 9/38)
CN: 1>0,1; 1,2

RNGTT, p.H321Y
S_C, (2/122, 33/159)
CN: 1>0,1; 2,2

ZNF79, p.H243Q
S_C, (1/47, 9/61)
CN: 1>0,1; 1,2

RTN1, Silent
S_C, (1/43, 13/56)
CN: 1>0,1; 1,2



FBXW7, p.R393*
S_C, (1/173, 75/132)
CN: 1,1; 2>3,0

ARHGAP35, Silent
S_C, (1/93, 17/71)
CN: 1,1; 1,1

ZXDC, Silent
S_C, (1/58, 17/48)
CN: 1>2,1; 1,1

MYBPC3, p.A697S
S_C, (1/69, 20/100)
CN: 1>0,1; 1,2

C6orf1, p.M149I
S_C, (1/24, 8/35)
CN: 1,1; 2,2

PPP6R2, p.T86I
S_C, (1/111, 34/130)
CN: 1,1; 1,1

HIST1H4B, Silent
S_C, (1/230, 28/156)
CN: 1,1; 2,2

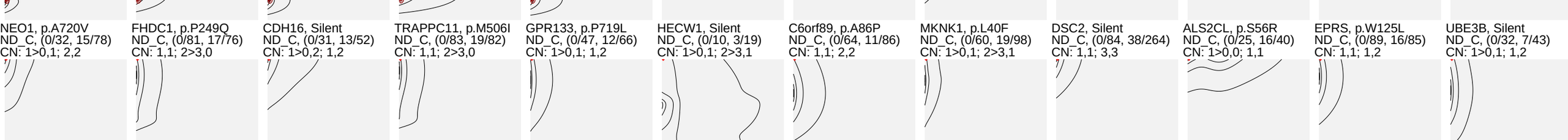
KIF15, p.Q613K
S_C, (1/94, 29/132)
CN: 1>0,0; 1,1

UTP3, Silent
S_C, (1/93, 16/72)
CN: 1,1; 0,2

LAMA3, p.G782C
S_C, (1/118, 21/153)
CN: 1,1; 2,2

TRIM14, p.W22L
S_C, (1/31, 13/43)
CN: 1>0,1; 1,2

TALDO1, p.Q17K
S_C, (1/10, 7/21)
CN: 1>0,1; 1,2



ATP1B3, p.Q136K
S_C, (2/185, 60/150)
CN: 1,2; 2>1,1

ACAN, p.T1665K
S_C, (1/35, 15/87)
CN: 1>0,1; 2,2

EIF3H, Silent
S_C, (1/132, 21/120)
CN: 1>0,1; 1,2

LRIT3, Silent
S_C, (1/33, 20/54)
CN: 1>0,1; 2>3,0

MDN1, Silent
S_C, (1/86, 23/144)
CN: 1>0,1; 2,2

CTNNBL1, Silent
S_C, (1/60, 21/118)
CN: 1,1; 2,2

DYRK1B, p.F190L
S_C, (1/13, 5/17)
CN: 1>0,1; 1,1

AVIL, p.A307E
S_C, (1/82, 25/101)
CN: 1,1; 1,2

CCDC88A, p.R1146*
S_C, (2/161, 78/181)
CN: 1>0,1; 1,2

ABR, Silent
S_C, (1/40, 13/69)
CN: 1>0,1; 1,2

PREX2, p.S683L
S_C, (1/54, 32/139)
CN: 1>0,1; 1,2

FAM129B, Silent
S_C, (1/190, 61/244)
CN: 1>0,1; 1,2



DNAJC6, p.G883W
S_C, (1/219, 81/374)
CN: 1>0,1; 2>3,1

ANK2, Silent
ND_S, (0/67, 4/89)
CN: 1>0,1; 2>3,0

PILRA, p.E143K
ND_S, (0/28, 4/59)
CN: 1>0,1; 2>3,1

ZNF514, p.S86N
ND_S, (0/198, 18/211)
CN: 1>0,1; 1,2

BCS1L, p.D5H
ND_S, (0/113, 6/112)
CN: 1,1; 2>3,0

MARCH10, p.A396S
ND_S, (0/91, 5/81)
CN: 1>0,1; 1,2

KIAA1279, p.C444Y
ND_S, (0/55, 4/74)
CN: 1>0,1; 1,1

PCDHA1, p.A587V
ND_S, (0/39, 5/132)
CN: 1,1; 2>1,1

MUC6, p.T1727K
ND_S, (0/192, 20/316)
CN: 1>0,1; 1,2

AGPAT9, p.R355*
ND_S, (0/48, 4/66)
CN: 1,1; 2>3,0

SPOP, Silent
ND_S, (0/132, 4/125)
CN: 1>0,1; 1,2

ALG1L, p.A114V
ND_S, (0/53, 4/52)
CN: 1>2,1; 1,1



COBLL1, p.D700Y
ND_S, (0/175, 10/253)
CN: 1>0,1; 2>3,0

DHX29, p.R897Q
ND_S, (0/65, 5/86)
CN: 1,1; 2>1,1

TLR2, p.A731V
ND_S, (0/96, 5/121)
CN: 1,1; 2>3,0

ATP11A, Silent
ND_S, (0/31, 4/89)
CN: 1,1; 2>1,2

ZNF92, p.K513E
ND_S, (0/64, 4/112)
CN: 1,1; 2>3,1

CREB3L4, Silent
ND_C, (0/45, 22/66)
CN: 1>0,1; 1,2

NLRP9, p.S516*
ND_C, (0/41, 23/73)
CN: 1,1; 2>1,1

NUDT17, p.Q153K
ND_C, (0/81, 6/68)
CN: 1>0,1; 2>1,2

KCNQ4, p.M616I
ND_C, (0/7, 3/8)
CN: 1>0,1; 2>3,1

ARSI, Silent
ND_C, (0/33, 27/55)
CN: 1,1; 2>1,1

MFI2, p.G711V
ND_C, (0/74, 16/66)
CN: 1>2,2; 1,2

LIMA1, p.C393F
ND_C, (0/51, 23/68)
CN: 1,1; 1>0,2



NEO1, p.A720V
ND_C, (0/32, 15/78)
CN: 1>0,1; 2,2

FHDC1, p.P249Q
ND_C, (0/81, 17/76)
CN: 1,1; 2>3,0

CDH16, Silent
ND_C, (0/31, 13/52)
CN: 1>0,2; 1,2

TRAPPC11, p.M506I
ND_C, (0/83, 19/82)
CN: 1,1; 2>3,0

GPR133, p.P719L
ND_C, (0/47, 12/66)
CN: 1>0,1; 1,2

HECW1, Silent
ND_C, (0/10, 3/19)
CN: 1>0,1; 2>3,1

C6orf89, p.A86P
ND_C, (0/64, 11/86)
CN: 1,1; 2,2

MKNK1, p.L40F
ND_C, (0/60, 19/98)
CN: 1>0,1; 2>3,1

DSC2, Silent
ND_C, (0/84, 38/264)
CN: 1,1; 3,3

ALS2CL, p.S56R
ND_C, (0/25, 16/40)
CN: 1>0,0; 1,1

EPRS, p.W125L
ND_C, (0/89, 16/85)
CN: 1,1; 1,2

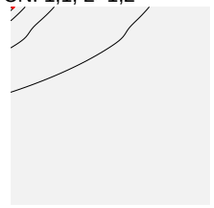
UBE3B, Silent
ND_C, (0/32, 7/43)
CN: 1>0,1; 1,2

COBL, p.P301Q
ND_C, (0/28, 9/38)
CN: 1,1; 2>3,1

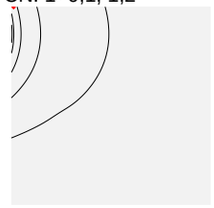
IGSF9B, p.V493M
ND_C, (0/19, 9/31)
CN: 1,1; 1,2

PCLO, p.T3734K
ND_C, (0/50, 24/93)
CN: 1,1; 1,2

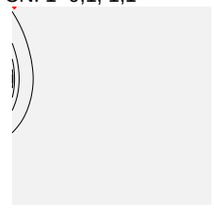
TAP2, p.K509N
ND_C, (0/22, 9/38)
CN: 1,1; 2>1,2



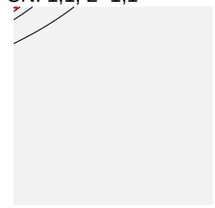
BPTF, p.P204Q
ND_C, (0/32, 7/37)
CN: 1>0,1; 1,2



MYOF, p.V565F
ND_C, (0/161, 21/116)
CN: 1>0,1; 1,1



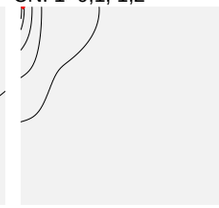
PCDHB12, p.H435Y
ND_C, (0/55, 27/76)
CN: 1,1; 2>1,1



C16orf59, p.E284D
ND_C, (0/18, 5/22)
CN: 1>0,2; 2>3,1

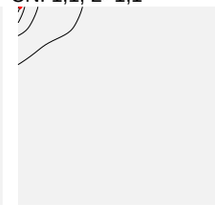
VHL, Silent
ND_C, (0/10, 3/11)
CN: 0,1; 1,1

SEC16A, Silent
ND_C, (0/16, 8/37)
CN: 1>0,1; 1,2

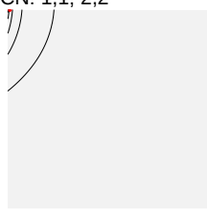


CNTD1, p.L32F
ND_C, (0/46, 13/59)
CN: 1>0,1; 1,2

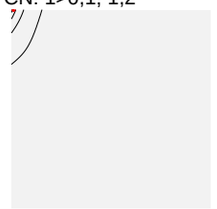
NLRP9, p.V347L
ND_C, (0/51, 23/78)
CN: 1,1; 2>1,1



ALPK2, Silent
ND_C, (0/74, 20/108)
CN: 1,1; 2,2



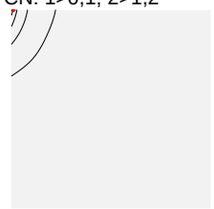
THRA, p.K337N
ND_C, (0/77, 26/98)
CN: 1>0,1; 1,2



ZNF263, p.H625Q
ND_C, (0/74, 19/73)
CN: 1>0,2; 2>3,1

RFPL1, Silent
ND_C, (0/39, 11/52)
CN: 1>0,1; 1,1

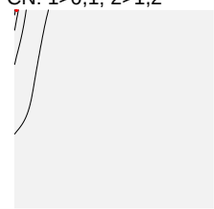
OR10A5, Silent
ND_C, (0/60, 25/111)
CN: 1>0,1; 2>1,2



YTHDF2, Silent
ND_C, (0/30, 5/31)
CN: 1,1; 2>3,1

FAM134C, p.G342C
ND_C, (0/53, 19/86)
CN: 1>0,1; 1,2

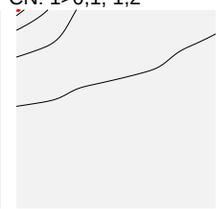
ZNF687, p.G62C
ND_C, (0/24, 7/34)
CN: 1>0,1; 2>1,2



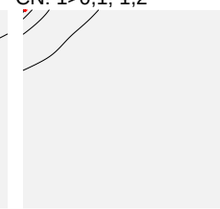
EPHA2, p.W52L
ND_C, (0/53, 14/57)
CN: 1,1; 2>3,1

UGT2B28, p.L218V
ND_C, (0/65, 22/102)
CN: 1,1; 0,2

SDK2, Silent
ND_C, (0/9, 8/30)
CN: 1>0,1; 1,2



NHLH1, Silent
ND_C, (0/35, 16/54)
CN: 1>0,1; 1,2



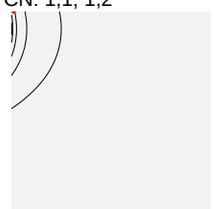
NINL, Silent
ND_C, (0/9, 7/26)
CN: 1,1; 2,2

FNBP1, p.A176D
ND_C, (0/19, 8/25)
CN: 1>0,1; 1,2

PDE8A, p.W286L
ND_C, (0/34, 10/50)
CN: 1>0,1; 2,2

PCDH10, Silent
ND_C, (0/44, 18/56)
CN: 1>0,1; 2>3,0

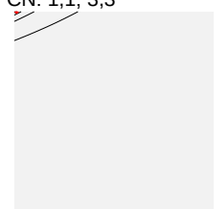
KLRC3, Silent
ND_C, (0/68, 18/90)
CN: 1,1; 1,2



GALR2, p.R216L
ND_C, (0/18, 5/21)
CN: 1>0,1; 2>3,1

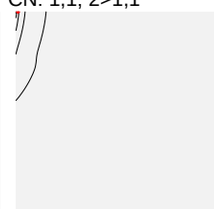
UNC45A, Silent
ND_C, (0/20, 7/36)
CN: 1>0,1; 2,2

DSG1, p.M362I
ND_C, (0/52, 43/179)
CN: 1,1; 3,3

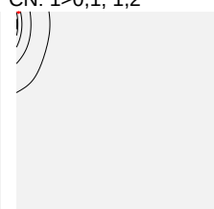


PLEKHG5, Silent
ND_C, (0/83, 30/131)
CN: 1,1; 1,2

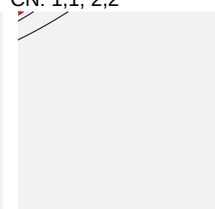
DCP2, Silent
ND_C, (0/121, 24/122)
CN: 1,1; 2>1,1



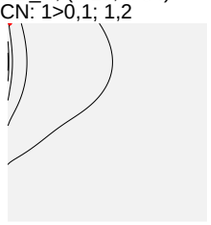
KRT34, Silent
ND_C, (0/58, 31/151)
CN: 1>0,1; 1,2



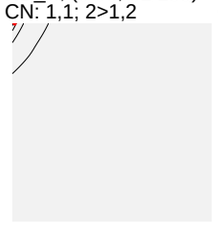
ZNF521, p.S406N
ND_C, (0/68, 33/96)
CN: 1,1; 2,2



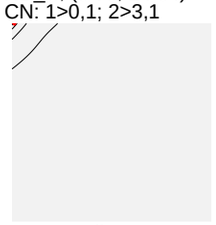
LRRC16B, Silent
ND_C, (0/17, 6/34)
CN: 1>0,1; 1,2



DDX39B, p.Q212H
ND_C, (0/99, 31/139)
CN: 1,1; 2>1,2

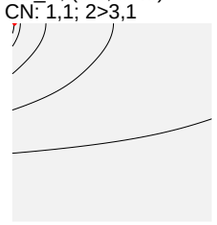


SLC12A9, Silent
ND_C, (0/70, 24/64)
CN: 1>0,1; 2>3,1



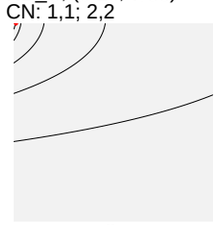
FKBP14, p.A201S
ND_C, (0/31, 5/32)
CN: 1>0,1; 2>3,1

TMEM201, p.E341*
ND_C, (0/9, 9/40)
CN: 1,1; 2>3,1



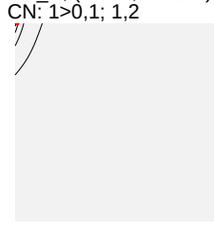
ASPA, Silent
ND_C, (0/161, 51/241)
CN: 1>0,1; 1,2

BPIFB2, p.H143N
ND_C, (0/10, 7/38)
CN: 1,1; 2,2

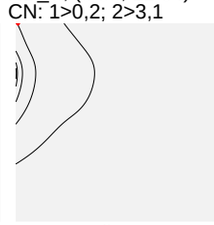


SP7, Silent
ND_C, (0/53, 20/84)
CN: 1>0,1; 1,2

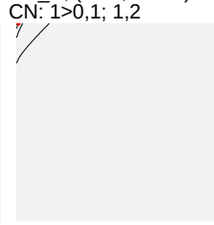
COL1A1, p.G1213C
ND_C, (0/127, 34/133)
CN: 1>0,1; 1,2



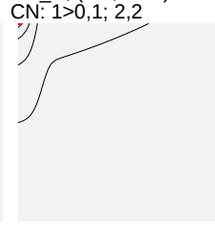
SRRM2, p.S2382I
ND_C, (0/53, 11/64)
CN: 1>0,2; 2>3,1



PLEKHH3, p.L179I
ND_C, (0/53, 23/65)
CN: 1>0,1; 1,2



TSPYL4, p.A105S
ND_C, (0/8, 5/15)
CN: 1>0,1; 2,2



PHF14, p.E480*
ND_C, (0/46, 18/79)
CN: 1>0,1; 2>3,1

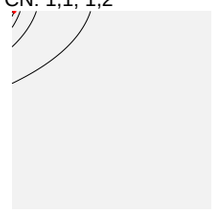
EPB41L2, p.Q198K
ND_C, (0/87, 18/148)
CN: 1>0,1; 2,2

NPTX2, Silent
ND_C, (0/6, 3/7)
CN: 1>0,1; 1,2

C9orf172, p.H49N
ND_C, (0/4, 7/16)
CN: 1>0,1; 1,2

RAET1G, p.H253N
ND_C, (0/23, 8/54)
CN: 1>0,1; 2,2

ASAH1, p.L276F
ND_C, (0/41, 19/78)
CN: 1,1; 1,2

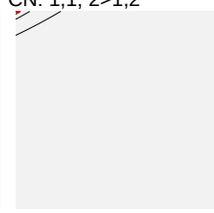


TCP10L, Silent
ND_C, (0/41, 17/80)
CN: 1,1; 0,2

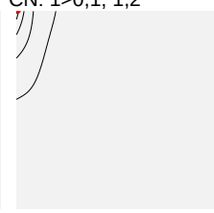
ECM2, p.Y111*
ND_C, (0/33, 12/52)
CN: 1>0,1; 1,2

XYLT2, Silent
ND_C, (0/26, 5/28)
CN: 1>0,1; 1,2

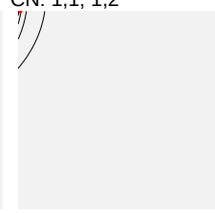
NALCN, Silent
ND_C, (0/77, 39/104)
CN: 1,1; 2>1,2



SLC39A9, p.A52E
ND_C, (0/35, 13/55)
CN: 1>0,1; 1,2



SLC26A10, Silent
ND_C, (0/142, 38/160)
CN: 1,1; 1,2



PAK1, p.D407Y
ND_C, (0/26, 6/42)
CN: 1>0,1; 1,2

NCOA6, Silent
ND_C, (0/80, 31/167)
CN: 1,1; 2,2

SIPA1L1, Silent
ND_C, (0/173, 44/207)
CN: 1>0,1; 1,2

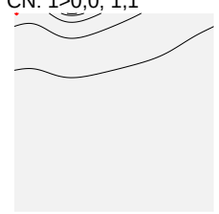
KRTAP10−2, p.C9*
ND_C, (0/47, 22/74)
CN: 1>0,1; 0,2

ITK, p.Q17K
ND_C, (0/95, 18/76)
CN: 1,1; 2>1,1

ATRAID, p.H243N
ND_C, (0/321, 70/327)
CN: 1>0,1; 1,2

CD248, Silent
ND_C, (0/26, 7/29)
CN: 1>0,1; 2>1,2

ALS2CL, p.S559N
ND_C, (0/12, 11/26)
CN: 1>0,0; 1,1

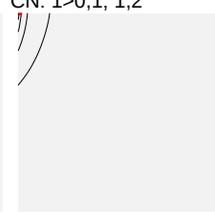


ITGAM, Silent
ND_C, (0/12, 3/13)
CN: 3,3; 1,2

CEP170B, p.R1269S
ND_C, (0/16, 5/30)
CN: 1>0,1; 1,2

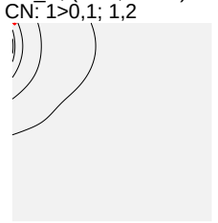
SYCP1, p.Q554K
ND_C, (0/79, 18/131)
CN: 1>0,1; 1,2

RNMTL1, p.W271L
ND_C, (0/102, 23/99)
CN: 1>0,1; 1,2

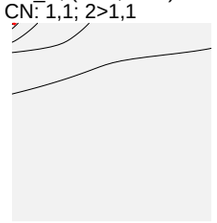


MAPKBP1, p.A1312E
ND_C, (0/53, 11/104)
CN: 1>0,1; 2,2

ARHGEF11, p.D636Y
ND_C, (0/30, 12/62)
CN: 1>0,1; 1,2

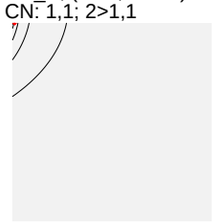


NLRP7, p.Q472K
ND_C, (0/12, 9/28)
CN: 1,1; 2>1,1

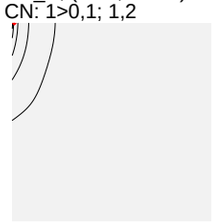


NECAP1, p.A116S
ND_C, (0/31, 19/54)
CN: 1,1; 1,2

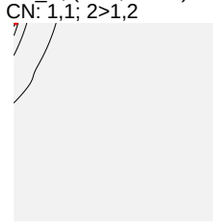
TIGD6, p.T257K
ND_C, (0/62, 22/82)
CN: 1,1; 2>1,1



UBR5, p.A627S
ND_C, (0/57, 12/54)
CN: 1>0,1; 1,2

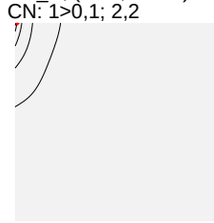


KBTBD6, p.S74R
ND_C, (0/82, 16/80)
CN: 1,1; 2>1,2

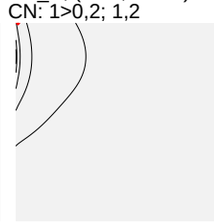


ZFYVE26, Silent
ND_C, (0/93, 36/187)
CN: 1>0,1; 1,2

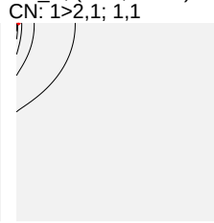
POLG, p.V1114L
ND_C, (0/43, 17/90)
CN: 1>0,1; 2,2



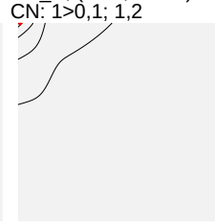
GFOD2, Silent
ND_C, (0/39, 10/55)
CN: 1>0,2; 1,2



NEK11, p.V534F
ND_C, (0/47, 15/53)
CN: 1>2,1; 1,1



ADCY8, Silent
ND_C, (0/18, 10/35)
CN: 1>0,1; 1,2



MYH15, p.R1832H
ND_C, (0/48, 17/61)
CN: 1,2; 1,1
RXFP4, Silent
ND_C, (0/48, 18/71)
CN: 1>0,1; 1,2
CCL23, p.N96K
ND_C, (0/18, 8/42)
CN: 1>0,1; 1,2
FOXK2, p.G498*
ND_C, (0/17, 7/34)
CN: 1>0,1; 2>3,1
XDH, p.H109N
ND_C, (0/84, 68/117)
CN: 1>0,1; 1,2
THRA, p.H454Q
ND_C, (0/57, 26/85)
CN: 1>0,1; 1,2
PAGR1, Silent
ND_C, (0/26, 6/21)
CN: 1>0,2; 1,2
GP2, p.V353F
ND_C, (0/82, 32/142)
CN: 1>0,2; 1,2
TP53BP2, Silent
ND_C, (0/22, 7/31)
CN: 1,1; 1,2
MAP1B, p.Q1642E
ND_C, (0/51, 19/72)
CN: 1,1; 2>1,1
EIF4H, p.D5E
ND_C, (0/19, 7/21)
CN: 1,1; 2>3,1
NCKAP5L, p.G995C
ND_C, (0/4, 5/8)
CN: 1,1; 1>0,2
BAI2, p.W681L
ND_C, (0/27, 10/46)
CN: 1>0,1; 2>3,1
GRIN1, Silent
ND_C, (0/18, 4/15)
CN: 1>0,1; 1,2
EPOR, p.C314F
ND_C, (0/35, 5/34)
CN: 1>0,1; 2>1,1
ITGB7, Silent
ND_C, (0/12, 5/22)
CN: 1>0,1; 1,2
KIAA1324, Silent
ND_C, (0/62, 19/115)
CN: 1>0,1; 1,2
SLC22A1, p.M193I
ND_C, (0/79, 41/210)
CN: 1>0,1; 2,2
USP48, p.C48F
ND_C, (0/50, 16/72)
CN: 1,1; 2>3,1
RARG, p.P30L
ND_C, (0/33, 14/21)
CN: 1>0,1; 1,2
AXIN1, p.P659Q
ND_C, (0/30, 15/64)
CN: 1>0,2; 2>3,1
CAMKK1, p.A96S
ND_C, (0/8, 4/14)
CN: 1>0,1; 1,2
GOLGB1, p.R3235Q
ND_C, (0/42, 11/43)
CN: 1>2,1; 1,1
NEK9, Silent
ND_C, (0/80, 27/132)
CN: 1>0,1; 1,2
OGDH, p.Q232K
ND_C, (0/52, 10/86)
CN: 1,1; 2>3,1
PUF60, p.A321T
ND_C, (0/65, 22/107)
CN: 1>0,1; 2>1,2
OR52W1, p.A72E
ND_C, (0/18, 8/39)
CN: 1>0,1; 1,2
PCDHA11, Silent
ND_C, (0/21, 15/75)
CN: 1,1; 2>1,1
SPNS1, p.C376F
ND_C, (0/54, 15/85)
CN: 1>0,2; 1,2
SLC30A2, p.G29C
ND_C, (0/21, 12/49)
CN: 1,1; 2>3,1
RBM12, p.N127K
ND_C, (0/157, 41/215)
CN: 1,1; 2,2
TMEM8B, p.A398S
ND_C, (0/50, 25/102)
CN: 1>0,1; 1>0,2
CRHR1, Silent
ND_C, (0/12, 18/43)
CN: 1>0,1; 1,2
GABRG3, p.C414F
ND_C, (0/16, 6/38)
CN: 1>0,1; 2,2
TTLL4, Silent
ND_C, (0/47, 28/41)
CN: 1,1; 2>3,0
PCDH1, Silent
ND_C, (0/31, 14/57)
CN: 1,1; 2>1,1
PEG3, p.R1226L
ND_C, (0/22, 8/36)
CN: 1,1; 2>1,1
GRPEL2, Silent
ND_C, (0/152, 27/149)
CN: 1,1; 2>3,1
SCAMP3, p.Q3H
ND_C, (0/59, 11/54)
CN: 1>0,1; 1,2
SORT1, p.A809D
ND_C, (0/26, 14/42)
CN: 1>0,1; 1,2
TRRAP, p.M700I
ND_C, (0/54, 22/77)
CN: 1>0,1; 1,2
PCDHB14, Silent
ND_C, (0/74, 54/130)
CN: 1,1; 2>1,1
PRPF8, p.H2313N
ND_C, (0/70, 22/84)
CN: 1>0,1; 1,2
NEFM, p.Q248K
ND_C, (0/19, 12/31)
CN: 1,1; 1,2
ENGASE, p.G562W
ND_C, (0/14, 5/32)
CN: 1>0,1; 2>3,1
DDR1, p.W53L
ND_C, (0/38, 7/43)
CN: 1,1; 2>1,2
FOXRED2, p.W524L
ND_C, (0/34, 24/59)
CN: 1>0,1; 1,1
KHSRP, Silent
ND_C, (0/20, 4/19)
CN: 1>0,1; 2>1,1
CCPG1, Silent
ND_C, (0/69, 20/118)
CN: 1>0,1; 2,2
GPSM1, Silent
ND_C, (0/5, 4/13)
CN: 1>0,1; 1,2
GREM2, Silent
ND_C, (0/40, 16/74)
CN: 1>0,1; 1,2
B3GNT7, Silent
ND_C, (0/37, 34/50)
CN: 1,1; 0,2
TOPBP1, p.G702C
ND_C, (0/37, 10/25)
CN: 1>2,1; 1,1
ABCC1, Silent
ND_C, (0/51, 16/54)
CN: 1>0,2; 1,2
SCRIB, p.A906S
ND_C, (0/3, 3/9)
CN: 1>0,1; 2>1,2
APBB1, Silent
ND_C, (0/21, 11/45)
CN: 1>0,1; 1,2
FRMD8, p.W78L
ND_C, (0/7, 5/15)
CN: 1>0,1; 2>1,2
CDKN1B, p.H0D
ND_C, (0/107, 18/68)
CN: 1,1; 2>1,1
RGS8, p.L87F
ND_C, (0/103, 29/182)
CN: 1,1; 1,2
CNTNAP5, p.G826R
ND_C, (0/65, 20/103)
CN: 1>0,1; 1,2
TRAM2, p.L367V
ND_C, (0/103, 27/190)
CN: 1>0,1; 2,2
DIDO1, Silent
ND_C, (0/79, 29/149)
CN: 1,1; 2,2
KIR3DL1, Silent
ND_C, (0/47, 42/95)
CN: 1,1; 2>1,1
IL10RB, p.Q190*
ND_C, (0/61, 17/57)
CN: 1,1; 0,2
RYR3, p.P1940Q
ND_C, (0/34, 13/72)
CN: 1>0,1; 2,2
SRCAP, Silent
ND_C, (0/27, 15/43)
CN: 1>0,2; 1,2
PTGES2, Silent
ND_C, (0/20, 9/33)
CN: 1>0,1; 1,2
MMP14, Silent
ND_C, (0/30, 10/34)
CN: 1>0,1; 1,2
CSMD2, p.E3228K
ND_C, (0/9, 8/38)
CN: 1>0,1; 2>3,1
ENPP1, Silent
ND_C, (0/78, 12/89)
CN: 1>0,1; 2,2
POLR1C, p.M10I
ND_C, (0/163, 28/133)
CN: 1>0,1; 2,2
VGF, Silent
ND_C, (0/16, 5/23)
CN: 1>0,1; 2>3,1
DMRT3, p.C55F
ND_C, (0/24, 12/58)
CN: 1,1; 1>0,2
OR6C70, p.A197T
ND_C, (0/44, 31/107)
CN: 1>0,1; 1,2
DCP1B, p.A365V
ND_C, (0/25, 10/44)
CN: 1,1; 1,2
TENC1, p.P1184Q
ND_C, (0/147, 28/117)
CN: 1>0,1; 1,2
NEU1, p.G219C
ND_C, (0/81, 22/151)
CN: 1,1; 2>1,2
STAU1, Silent
ND_C, (0/54, 19/82)
CN: 1,1; 2,2
RGS3, p.G65W
ND_C, (0/31, 16/47)
CN: 1>0,1; 2>1,1
ZNF536, p.A1228E
ND_C, (0/16, 9/22)
CN: 1>0,1; 1,1
CHTF18, p.Q363K
ND_C, (0/8, 6/18)
CN: 1>0,2; 2>3,1
DOK2, p.W396L
ND_C, (0/39, 15/60)
CN: 1,1; 1,2
DNAH5, Silent
ND_C, (0/41, 14/58)
CN: 1,1; 1>0,2
GPR124, p.N612K
ND_C, (0/48, 22/87)
CN: 1>0,1; 1>0,2

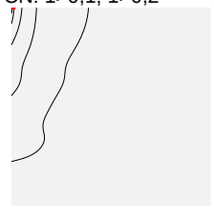
WDHD1, p.A719S
ND_C, (0/44, 12/62)
CN: 1>0,1; 1,2

TRPV2, p.W507L
ND_C, (0/56, 22/86)
CN: 1>0,1; 1,2

WDR90, p.L359M
ND_C, (0/35, 21/79)
CN: 1>0,2; 2>3,1

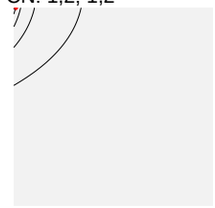
KIF5A, p.A391T
ND_C, (0/15, 7/23)
CN: 1,1; 1,2

NPR2, p.P207Q
ND_C, (0/26, 6/33)
CN: 1>0,1; 1>0,2

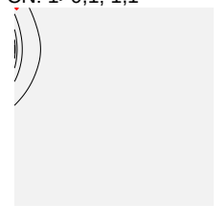


PARP10, p.Q929K
ND_C, (0/12, 3/9)
CN: 1>0,1; 2>1,2

KLHDC4, p.D267E
ND_C, (0/57, 17/71)
CN: 1,2; 1,2



DCLRE1C, p.A576D
ND_C, (0/144, 32/142)
CN: 1>0,1; 1,1



TJAP1, p.A382S
ND_C, (0/13, 3/12)
CN: 1>0,1; 2,2

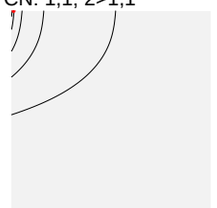
SEMA4G, Silent
ND_C, (0/13, 4/12)
CN: 1>0,1; 1,1

EP300, p.W1466L
ND_C, (0/46, 21/54)
CN: 1,1; 1,1

TNC, Silent
ND_C, (0/48, 6/39)
CN: 1>0,1; 2>3,1

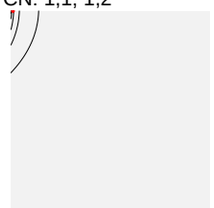
SEC31B, p.P832Q
ND_C, (0/20, 7/35)
CN: 1>0,1; 1,1

PPARGC1B, p.S832Y
ND_C, (0/30, 16/70)
CN: 1,1; 2>1,1

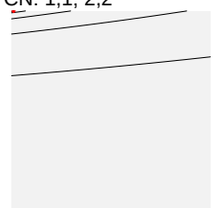


POLR1A, Silent
ND_C, (0/57, 12/49)
CN: 1>0,1; 1,2

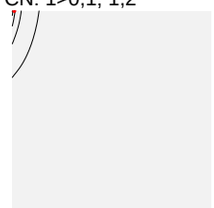
CCDC34, Silent
ND_C, (0/134, 46/207)
CN: 1,1; 1,2



RREB1, Silent
ND_C, (0/5, 8/18)
CN: 1,1; 2,2



C12orf29, p.G60*
ND_C, (0/74, 25/105)
CN: 1>0,1; 1,2



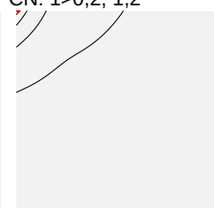
RYR1, p.E2133D
ND_C, (0/18, 8/29)
CN: 1>0,1; 1,1

KIF21B, Silent
ND_C, (0/52, 16/79)
CN: 1,1; 1,2

PEX6, p.W704L
ND_C, (0/11, 4/24)
CN: 1>0,1; 2,2

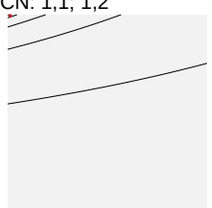
PKP3, p.M157I
ND_C, (0/15, 8/36)
CN: 1>0,1; 1,2

CIITA, p.G18G
ND_C, (0/31, 10/35)
CN: 1>0,2; 1,2



TRIM2, p.C23F
ND_C, (0/65, 17/50)
CN: 1,1; 2>3,0

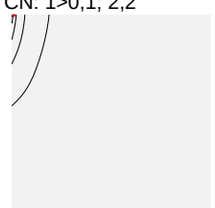
KRT84, p.C579F
ND_C, (0/8, 5/10)
CN: 1,1; 1,2



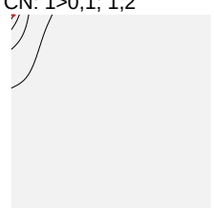
MIER1, Silent
ND_C, (0/228, 46/285)
CN: 1>0,1; 2>1,1

CHST12, Silent
ND_C, (0/16, 5/49)
CN: 1>0,1; 2>3,1

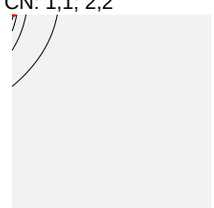
CUL9, p.S1789*
ND_C, (0/50, 13/68)
CN: 1>0,1; 2,2



WDR89, p.C82F
ND_C, (0/33, 16/63)
CN: 1>0,1; 1,2

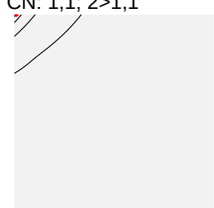


MPI, p.W18L
ND_C, (0/76, 22/112)
CN: 1,1; 2,2

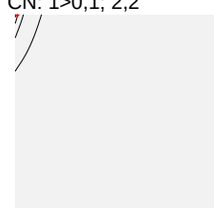


ABHD16A, p.C0F
ND_C, (0/31, 8/56)
CN: 1,1; 2>1,2

PCDHB12, Silent
ND_C, (0/49, 19/65)
CN: 1,1; 2>1,1

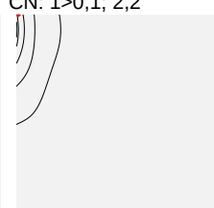


IMPA2, p.C212S
ND_C, (0/77, 22/95)
CN: 1>0,1; 2,2

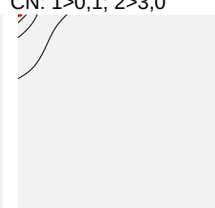


GAREM, Silent
ND_C, (0/66, 14/95)
CN: 1,1; 2,2

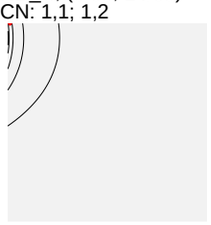
TIPIN, p.M102I
ND_C, (0/36, 12/73)
CN: 1>0,1; 2,2



SEC24D, p.Q304K
ND_C, (0/35, 18/34)
CN: 1>0,1; 2>3,0

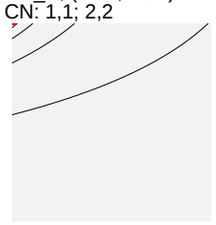


IRAK3, p.W52L
ND_C, (0/65, 14/69)
CN: 1,1; 1,2

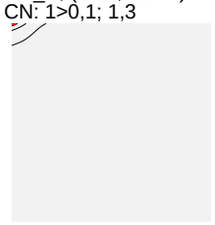


CTD−2192J16.20, p.P643R
ND_C, (0/71, 25/92)
CN: 1>0,1; 2>1,1

SRIB3, Silent
ND_C, (0/15, 7/26)
CN: 1,1; 2,2



GRHL1, Silent
ND_C, (0/37, 32/64)
CN: 1>0,1; 1,3

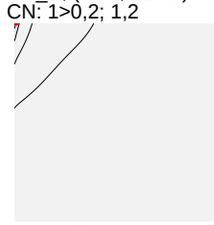


RBM12, p.G263E
ND_C, (0/81, 23/124)
CN: 1,1; 2,2

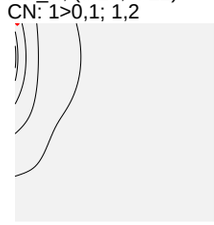
C17orf77, p.C126F
ND_C, (0/60, 15/94)
CN: 1>0,1; 1,2

PEAK1, p.R1576H
ND_C, (0/56, 22/105)
CN: 1,1; 2,2

MMP15, p.Y151*
ND_C, (0/33, 11/42)
CN: 1>0,2; 1,2

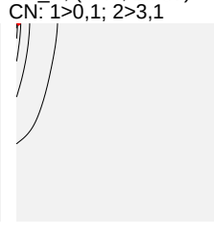


CENPP, p.P214Q
ND_C, (0/26, 4/22)
CN: 1>0,1; 1,2

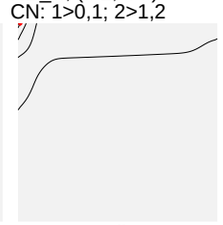


GFPT2, p.R366Q
ND_C, (0/19, 3/28)
CN: 1,1; 1,2

GADD45A, p.Q118H
ND_C, (0/49, 13/57)
CN: 1>0,1; 2>3,1

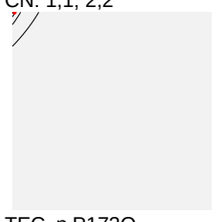


TMEM151A, p.V149I
ND_C, (0/2, 3/5)
CN: 1>0,1; 2>1,2



NELL2, p.V676L
ND_C, (0/24, 9/68)
CN: 1>0,1; 2>1,1

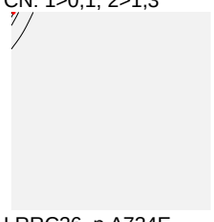
PSTPIP2, Silent
ND_C, (0/145, 47/187)
CN: 1,1; 2,2



NPAT, p.P291Q
ND_C, (0/40, 12/67)
CN: 1>0,1; 1,2

ZNF462, p.V1617L
ND_C, (0/40, 16/62)
CN: 1>0,1; 1,2

CRNN, p.Q157K
ND_C, (0/94, 39/158)
CN: 1>0,1; 2>1,3

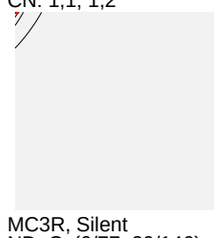


ATHL1, p.G243C
ND_C, (0/41, 11/53)
CN: 1>0,1; 1,2

LIPN, p.P79Q
ND_C, (0/55, 22/68)
CN: 1>0,1; 1,1

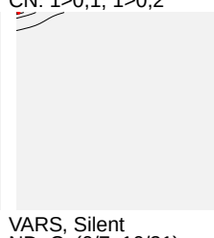
APC, Silent
ND_C, (0/39, 29/72)
CN: 1,1; 2>1,1

IRF2BP2, p.M425I
ND_C, (0/144, 37/121)
CN: 1,1; 1,2

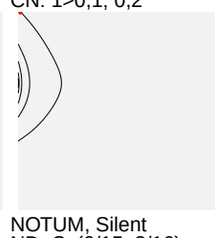


FRMD8, p.L57M
ND_C, (0/43, 20/67)
CN: 1>0,1; 2>1,2

TUBA3D, p.W21L
ND_C, (0/45, 46/89)
CN: 1>0,1; 1>0,2



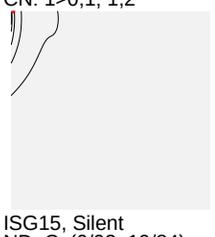
NDUFV3, Silent
ND_C, (0/72, 17/93)
CN: 1>0,1; 0,2



TRMT2A, p.S405Y
ND_C, (0/52, 19/70)
CN: 1>0,1; 1,2

TEC, p.P173Q
ND_C, (0/60, 28/86)
CN: 1>0,1; 2>3,0

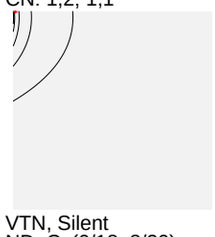
SLC39A1, p.Q66H
ND_C, (0/103, 23/109)
CN: 1>0,1; 1,2



LTBP2, Silent
ND_C, (0/40, 15/51)
CN: 1>0,1; 1,2

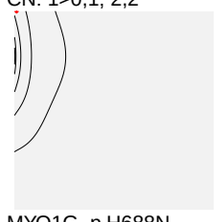
LRRC36, p.A734E
ND_C, (0/50, 14/57)
CN: 1>0,2; 1,2

BBX, p.Q272K
ND_C, (0/65, 16/58)
CN: 1,2; 1,1



PAX1, Silent
ND_C, (0/35, 18/103)
CN: 1,1; 2,2

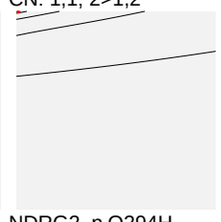
PKHD1, p.Q4014E
ND_C, (0/27, 7/51)
CN: 1>0,1; 2,2



MC3R, Silent
ND_C, (0/77, 20/146)
CN: 1,1; 2,2

SIRT3, Silent
ND_C, (0/35, 16/53)
CN: 1>0,1; 1,2

VARS, Silent
ND_C, (0/7, 10/31)
CN: 1,1; 2>1,2



NOTUM, Silent
ND_C, (0/15, 3/16)
CN: 1>0,1; 2>3,1

URB2, Silent
ND_C, (0/30, 17/64)
CN: 1,1; 1,2

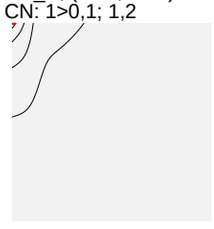
EPN2, p.G580W
ND_C, (0/10, 6/19)
CN: 1>0,1; 1,2

ISG15, Silent
ND_C, (0/93, 19/84)
CN: 1,1; 1,2

FAM64A, p.Q218K
ND_C, (0/31, 8/58)
CN: 1>0,1; 1,2

NAGLU, Silent
ND_C, (0/88, 26/137)
CN: 1>0,1; 1,2

VTN, Silent
ND_C, (0/18, 8/29)
CN: 1>0,1; 1,2

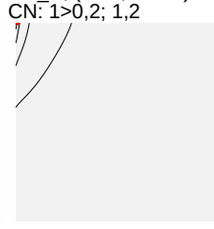


TMEM25,
ND_C, (0/33, 9/67)
CN: 1>0,1; 1,2

MYO1G, p.H688N
ND_C, (0/16, 6/45)
CN: 1,1; 2>3,1

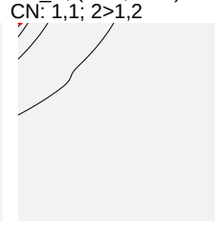
CILP2, Silent
ND_C, (0/9, 4/17)
CN: 1>0,1; 1,1

CDH5, p.H55N
ND_C, (0/53, 13/53)
CN: 1>0,2; 1,2



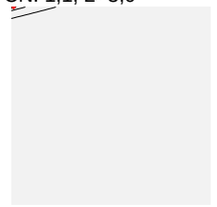
NDRG2, p.Q294H
ND_C, (0/17, 4/28)
CN: 1>0,1; 1,2

FRY, Silent
ND_C, (0/33, 8/34)
CN: 1,1; 2>1,2

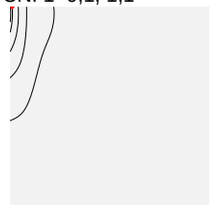


CHRM3, Silent
ND_C, (0/96, 41/157)
CN: 1>0,1; 1,2

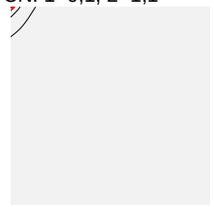
ADAM23, p.P448A
ND_C, (0/78, 86/127)
CN: 1,1; 2>3,0



ZNF30, p.G462C
ND_C, (0/23, 8/29)
CN: 1>0,1; 1,1

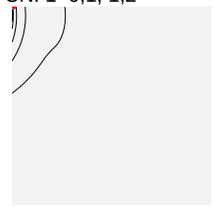


NRF1, p.R248H
ND_C, (0/79, 33/80)
CN: 1>0,1; 2>1,1

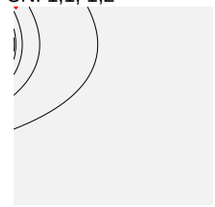


AREL1, p.A787E
ND_C, (0/72, 18/88)
CN: 1>0,1; 1,2

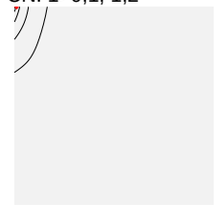
COPA, p.V1041L
ND_C, (0/76, 22/105)
CN: 1>0,1; 1,2



CD163, p.T385R
ND_C, (0/38, 11/62)
CN: 1,1; 1,2

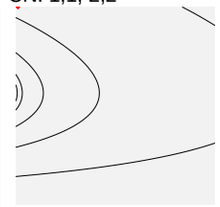


SLC47A1, p.G420C
ND_C, (0/62, 26/109)
CN: 1>0,1; 1,2



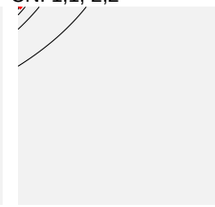
SMPD4, p.H582N
ND_C, (0/29, 8/57)
CN: 1>0,1; 1,2

SNPH, p.A28S
ND_C, (0/11, 4/40)
CN: 1,1; 2,2



NOD2, p.A944S
ND_C, (0/23, 11/41)
CN: 1>2,1; 1,2

SULF2, Silent
ND_C, (0/48, 13/44)
CN: 1,1; 2,2

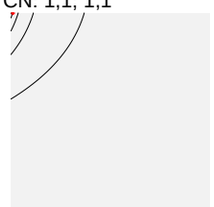


EFNB2, p.A229S
ND_C, (0/82, 8/99)
CN: 1,1; 2>1,2

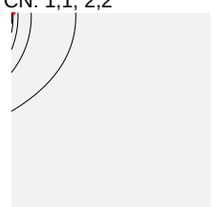
TRANK1, p.Q2084K
ND_C, (0/14, 8/29)
CN: 1>0,0; 1,1

ARID1B, p.Q1884K
ND_C, (0/53, 14/83)
CN: 1>0,1; 2,2

PNKP, Silent
ND_C, (0/44, 10/30)
CN: 1,1; 1,1



ELMO2, p.I74V
ND_C, (0/51, 14/80)
CN: 1,1; 2,2

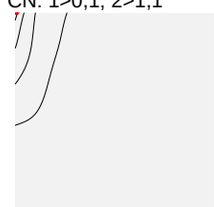


KPNA3, p.G399C
ND_C, (0/110, 19/142)
CN: 1,1; 2>1,2

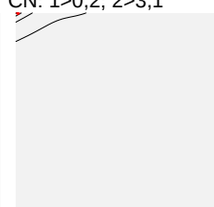
CNOT1, p.T1337N
ND_C, (0/112, 16/97)
CN: 1>0,2; 1,2

C12orf5, p.D212Y
ND_C, (0/64, 19/92)
CN: 1,1; 1,2

WNT9B, p.Q267K
ND_C, (0/32, 17/80)
CN: 1>0,1; 2>1,1

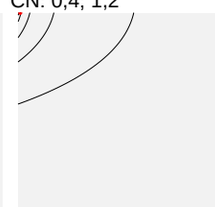


MMP25, Silent
ND_C, (0/67, 35/76)
CN: 1>0,2; 2>3,1



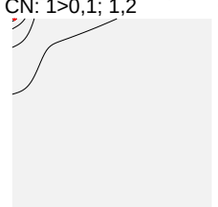
ATP2A3, p.A69S
ND_C, (0/34, 9/67)
CN: 1>0,1; 1,2

PKN2, p.D548Y
ND_C, (0/36, 12/51)
CN: 0,4; 1,2

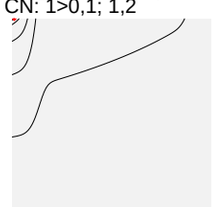


PEG3, Silent
ND_C, (0/23, 11/39)
CN: 1,1; 2>1,1

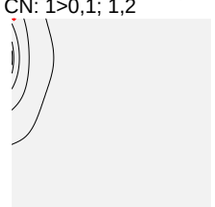
KIAA1984, p.K532N
ND_C, (0/12, 7/16)
CN: 1>0,1; 1,2



TCAP, p.G100A
ND_C, (0/7, 4/12)
CN: 1>0,1; 1,2

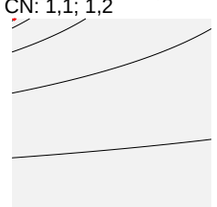


CIZ1, p.C690F
ND_C, (0/34, 10/57)
CN: 1>0,1; 1,2

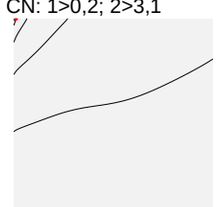


MYO5B, p.A253E
ND_C, (0/19, 6/48)
CN: 1,1; 2,2

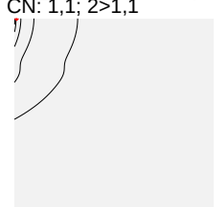
VWF, Silent
ND_C, (0/4, 3/10)
CN: 1,1; 1,2



TMEM8A, Silent
ND_C, (0/12, 8/28)
CN: 1>0,2; 2>3,1



PCDHA4, p.W606L
ND_C, (0/52, 20/109)
CN: 1,1; 2>1,1

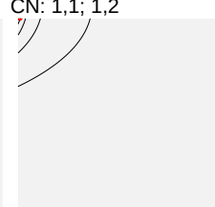


ALDH4A1, p.G512C
ND_C, (0/46, 15/75)
CN: 1,1; 2>3,1

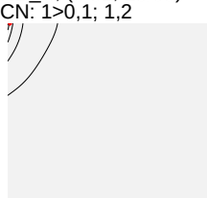
NUP85, p.V0L
ND_C, (0/70, 18/72)
CN: 1>0,1; 1,2

NPAS2, p.V191L
ND_C, (0/42, 11/67)
CN: 1>0,1; 1,2

HR, p.P431Q
ND_C, (0/45, 25/106)
CN: 1,1; 1,2

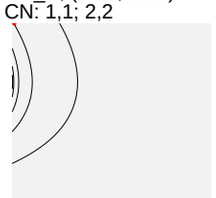


WDR81, p.S387T
ND_C, (0/51, 23/99)
CN: 1>0,1; 1,2

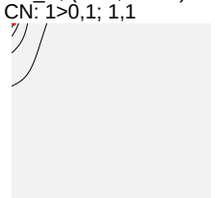


SLC52A2, Silent
ND_C, (0/29, 4/33)
CN: 1>0,1; 2>1,2

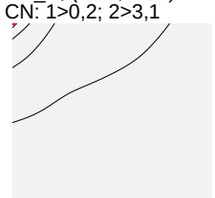
STK35, p.Q529K
ND_C, (0/50, 9/72)
CN: 1,1; 2,2



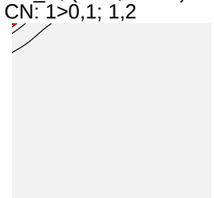
TMEM180, Silent
ND_C, (0/41, 22/69)
CN: 1>0,1; 1,1



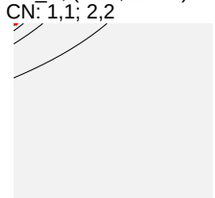
ABCA3, Silent
ND_C, (0/17, 7/20)
CN: 1>0,2; 2>3,1



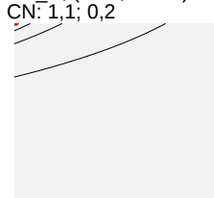
IL18R1, Silent
ND_C, (0/69, 35/96)
CN: 1>0,1; 1,2



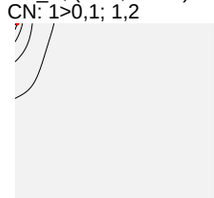
ANKEF1, p.M757I
ND_C, (0/34, 16/57)
CN: 1,1; 2,2



LRPAP1, Silent
ND_C, (0/20, 15/36)
CN: 1,1; 0,2



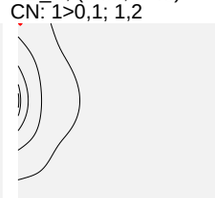
DNAH2, p.D1461N
ND_C, (0/40, 19/80)
CN: 1>0,1; 1,2



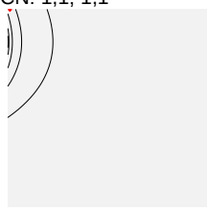
MUC5B, Silent
ND_C, (0/35, 13/80)
CN: 1>0,1; 1,2

TLE4, p.A0E
ND_C, (0/37, 13/58)
CN: 1>0,1; 1,2

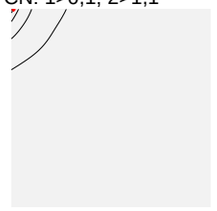
TERF1, p.C87F
ND_C, (0/30, 6/45)
CN: 1>0,1; 1,2



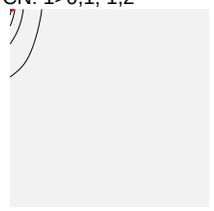
KIAA1462, p.G506W
ND_C, (0/76, 15/63)
CN: 1,1; 1,1



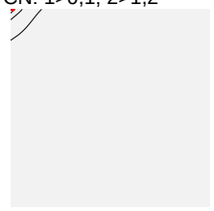
NOS3, p.W445L
ND_C, (0/46, 17/53)
CN: 1>0,1; 2>1,1



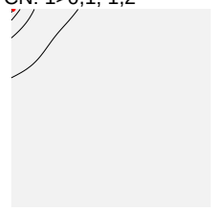
TRPV2, Silent
ND_C, (0/69, 26/111)
CN: 1>0,1; 1,2



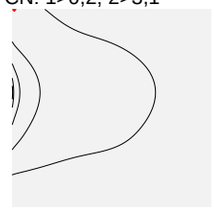
RNASEH2C, p.G139C
ND_C, (0/46, 25/59)
CN: 1>0,1; 2>1,2



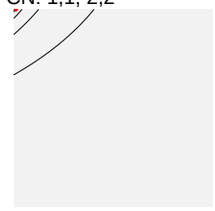
SPTBN1, p.A989D
ND_C, (0/35, 13/44)
CN: 1>0,1; 1,2



HBZ, p.W15L
ND_C, (0/28, 7/53)
CN: 1>0,2; 2>3,1

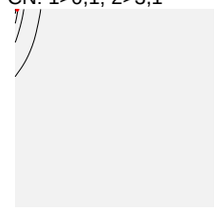


SULF2, Silent
ND_C, (0/40, 11/37)
CN: 1,1; 2,2

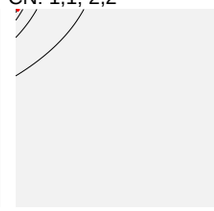


IDH2, p.G303C
ND_C, (0/41, 5/47)
CN: 1>0,1; 2,2

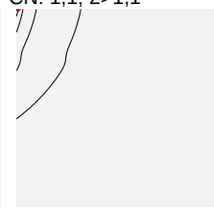
PTPRF, Silent
ND_C, (0/75, 33/134)
CN: 1>0,1; 2>3,1



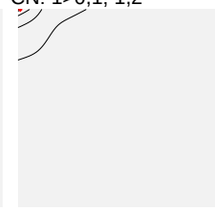
BPIFA1, p.L42F
ND_C, (0/48, 16/69)
CN: 1,1; 2,2



ISL1, Silent
ND_C, (0/51, 7/30)
CN: 1,1; 2>1,1

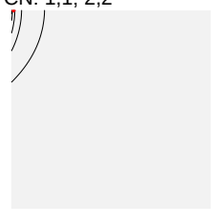


FGD3, p.W624L
ND_C, (0/25, 14/36)
CN: 1>0,1; 1,2

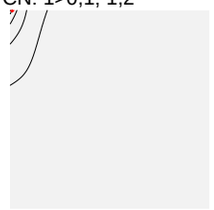


TNFRSF11A, Silent
ND_C, (0/24, 15/58)
CN: 1,1; 2,2

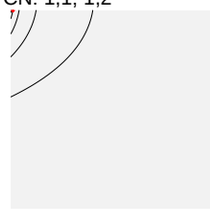
HIVEP1, p.Q1820K
ND_C, (0/109, 34/189)
CN: 1,1; 2,2



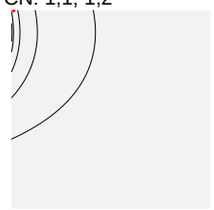
ACADVL, p.M344I
ND_C, (0/44, 13/48)
CN: 1>0,1; 1,2



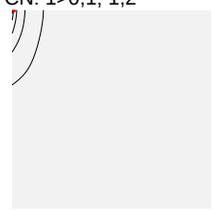
TAF5L, p.A274S
ND_C, (0/39, 14/60)
CN: 1,1; 1,2



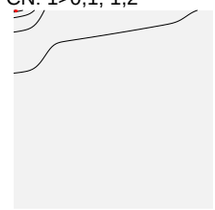
CSGALNACT1, p.L8M
ND_C, (0/38, 7/36)
CN: 1,1; 1,2



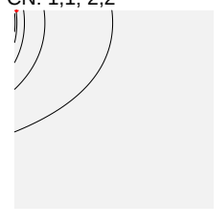
DNAH9, p.H165N
ND_C, (0/71, 25/112)
CN: 1>0,1; 1,2



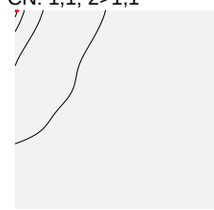
GPR148, p.H334N
ND_C, (0/7, 7/10)
CN: 1>0,1; 1,2



TSHZ2, p.D94N
ND_C, (0/32, 8/48)
CN: 1,1; 2,2

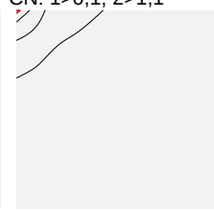


ATP10B, p.M1408I
ND_C, (0/35, 13/74)
CN: 1,1; 2>1,1



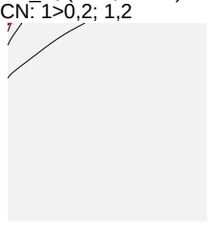
CCDC88B, Silent
ND_C, (0/8, 8/32)
CN: 1>0,1; 0,3

ABCB8, p.A0D
ND_C, (0/23, 6/12)
CN: 1>0,1; 2>1,1



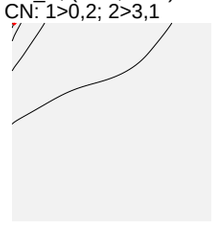
MKL2, p.Q694K
ND_C, (0/38, 19/81)
CN: 1>0,2; 1,2

ZNF646, Silent
ND_C, (0/42, 20/69)
CN: 1>0,2; 1,2



ANXA2, p.C335F
ND_C, (0/63, 15/89)
CN: 1>0,1; 2,2

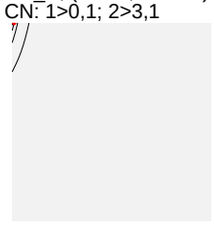
UBE2I, p.P105Q
ND_C, (0/23, 8/26)
CN: 1>0,2; 2>3,1



TBR1, p.Q661K
ND_C, (0/14, 24/30)
CN: 1>0,1; 2>3,0

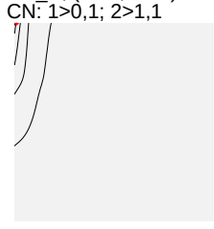
FOXJ1, Silent
ND_C, (0/1, 3/7)
CN: 1>0,1; 2>3,1

PTPRZ1, p.G37C
ND_C, (0/193, 66/245)
CN: 1>0,1; 2>3,1



SH3TC1, p.P496L
ND_C, (0/10, 5/16)
CN: 1,1; 0,2

FLNC, Silent
ND_C, (0/25, 6/24)
CN: 1>0,1; 2>1,1



AMZ1, Silent
ND_C, (0/8, 3/12)
CN: 1>0,1; 2>3,1

KLRC2, Silent
ND_C, (0/95, 24/118)
CN: 1,1; 2>1,1

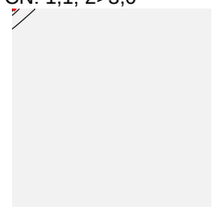
ERCC2, p.A172S
ND_C, (0/11, 3/14)
CN: 1,1; 1,1

KLHL22, Silent
ND_C, (0/18, 5/25)
CN: 1>0,1; 1,2

PER2, p.E1242K
ND_C, (0/19, 3/28)
CN: 1,1; 0,2

PELO, p.L104M
ND_C, (0/62, 9/49)
CN: 1,1; 2>1,1

FBXW7, p.N392K
ND_C, (0/172, 76/130)
CN: 1,1; 2>3,0



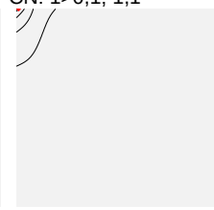
DUOX1, Silent
ND_C, (0/37, 6/45)
CN: 1>0,1; 2,2

FAM193B, p.P127H
ND_C, (0/33, 15/61)
CN: 1,1; 1,2

POC1A, p.G37C
ND_C, (0/23, 7/35)
CN: 0,1; 1,1

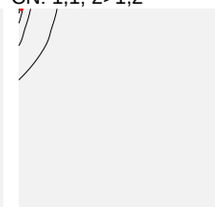
KIAA0196, Silent
ND_C, (0/53, 18/83)
CN: 1>0,1; 1,2

ADAMTS14, p.H1004N
ND_C, (0/33, 17/46)
CN: 1>0,1; 1,1

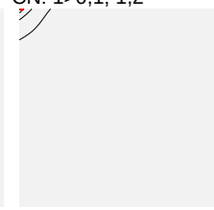


RPS6KA5, p.H536N
ND_C, (0/100, 26/139)
CN: 1>0,1; 1,2

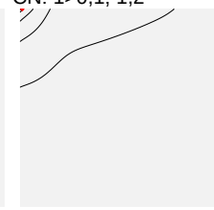
ZBTB22, p.C306F
ND_C, (0/92, 24/127)
CN: 1,1; 2>1,2



ARRDC1, p.A223S
ND_C, (0/72, 45/144)
CN: 1>0,1; 1,2

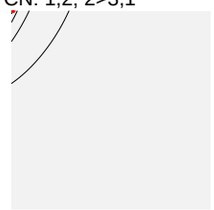


AMPD2, Silent
ND_C, (0/11, 9/28)
CN: 1>0,1; 1,2

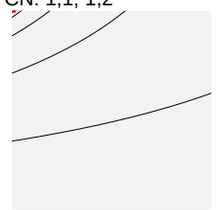


TTC4, p.G5W
ND_C, (0/16, 3/18)
CN: 1>0,1; 2>3,1

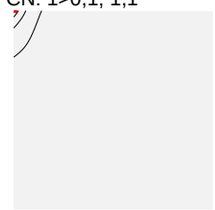
PLCG2, Silent
ND_C, (0/68, 31/94)
CN: 1,2; 2>3,1



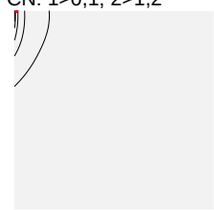
C1orf226, p.P171Q
ND_C, (0/8, 3/8)
CN: 1,1; 1,2



RYR1, p.R4130L
ND_C, (0/63, 19/46)
CN: 1>0,1; 1,1



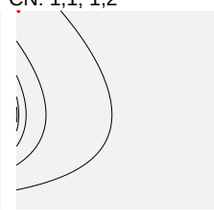
ZNF143, p.G75C
ND_C, (0/104, 29/142)
CN: 1>0,1; 2>1,2



SERINC1, p.S3R
ND_C, (0/149, 22/118)
CN: 1>0,1; 2,2

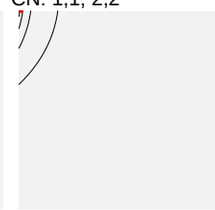
FKBP15, p.H416N
ND_C, (0/46, 17/83)
CN: 1>0,1; 2>1,1

MIR3654, p.C351F
ND_C, (0/33, 3/29)
CN: 1,1; 1,2

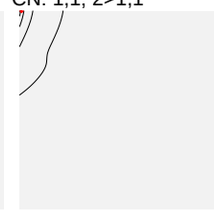


KLHL11, Silent
ND_C, (0/83, 29/130)
CN: 1>0,1; 1,2

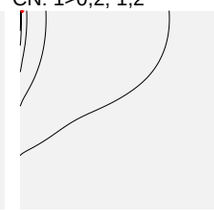
ZNFX1, Silent
ND_C, (0/90, 22/114)
CN: 1,1; 2,2



PCDHA9, p.E527*
ND_C, (0/79, 40/212)
CN: 1,1; 2>1,1



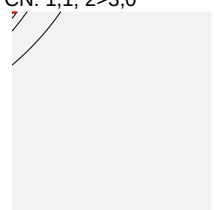
PSKH1, Silent
ND_C, (0/14, 4/19)
CN: 1>0,2; 1,2



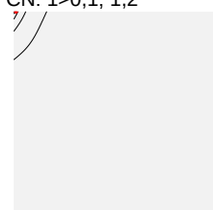
ARL2BP, p.S147*
ND_C, (0/64, 12/55)
CN: 1>0,2; 1,2

PLEKHG1, p.A436S
ND_C, (0/122, 10/130)
CN: 1>0,1; 2,2

HERC3, p.L755fs
ND_C, (0/70, 22/49)
CN: 1,1; 2>3,0



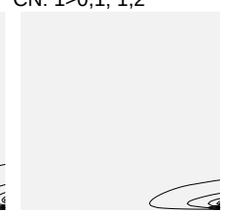
RP11−909M7.3, lincRNA
ND_C, (0/83, 32/119)
CN: 1>0,1; 1,2



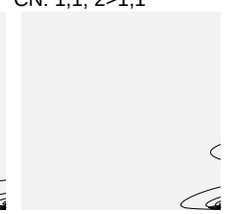
DAAM1, p.A287T
C_S, (20/96, 2/120)
CN: 1>0,1; 1,2

CHSY1, p.N795I
C_S, (24/141, 1/139)
CN: 1>0,1; 2,2

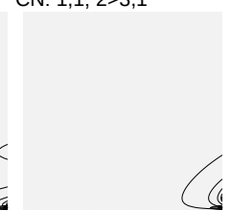
DDB1, Silent
C_S, (22/129, 1/181)
CN: 1>0,1; 1,2



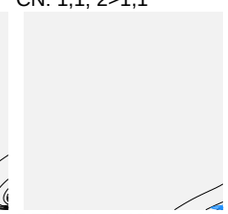
ARRDC3, p.R320K
C_S, (54/268, 1/235)
CN: 1,1; 2>1,1



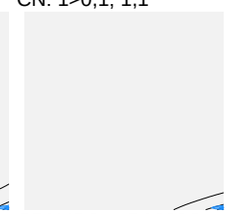
FAT2, Silent
C_S, (21/69, 1/96)
CN: 1,1; 2>3,1



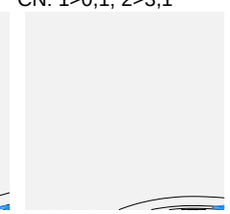
GUCY2C, p.A930T
C_ND, (16/53, 0/87)
CN: 1,1; 2>1,1



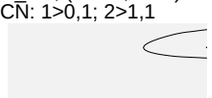
NET1, p.L412V
C_ND, (26/120, 0/107)
CN: 1>0,1; 1,1



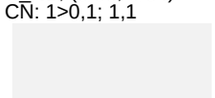
CBX8, p.E63K
C_ND, (25/206, 0/205)
CN: 1>0,1; 2>3,1



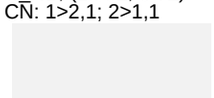
SLC44A2, Silent
C_ND, (17/99, 0/88)
CN: 1>0,1; 2>1,1



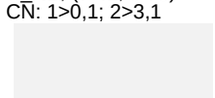
TGFBR2,
C_ND, (8/53, 0/34)
CN: 1>0,1; 1,1



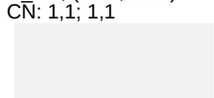
SMC4, p.E233K
C_ND, (13/92, 0/72)
CN: 1>2,1; 2>1,1



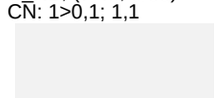
CCDC30, p.S257L
C_ND, (7/41, 0/75)
CN: 1>0,1; 2>3,1



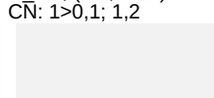
NRP1, p.I0F
C_ND, (4/50, 0/56)
CN: 1,1; 1,1



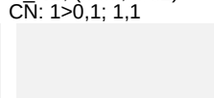
RINL, p.E373K
C_ND, (7/43, 0/58)
CN: 1>0,1; 1,1



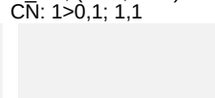
SEPT5, Silent
C_ND, (2/3, 0/26)
CN: 1>0,1; 1,2



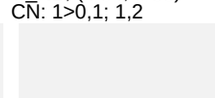
ZNF257, p.V532I
C_ND, (5/36, 0/62)
CN: 1>0,1; 1,1



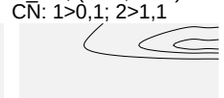
RINL, p.R430T
C_ND, (5/40, 0/49)
CN: 1>0,1; 1,1



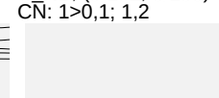
DDX51, p.P492S
C_ND, (4/34, 0/38)
CN: 1>0,1; 1,2



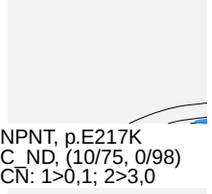
CPAMD8, p.R1609Q
C_ND, (4/24, 0/28)
CN: 1>0,1; 2>1,1



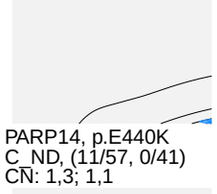
CHD7, Silent
C_ND, (9/102, 0/190)
CN: 1>0,1; 1,2



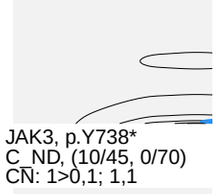
NPNT, p.E217K
C_ND, (10/75, 0/98)
CN: 1>0,1; 2>3,0



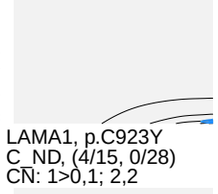
PARP14, p.E440K
C_ND, (11/57, 0/41)
CN: 1,3; 1,1



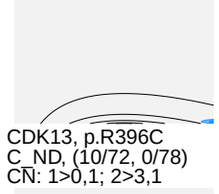
JAK3, p.Y738*
C_ND, (10/45, 0/70)
CN: 1>0,1; 1,1



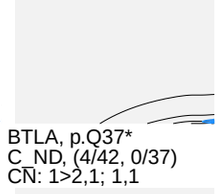
LAMA1, p.C923Y
C_ND, (4/15, 0/28)
CN: 1>0,1; 2,2



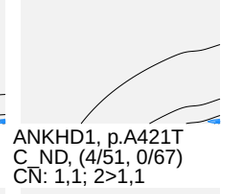
CDK13, p.R396C
C_ND, (10/72, 0/78)
CN: 1>0,1; 2>3,1



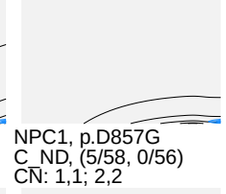
BTLA, p.Q37*
C_ND, (4/42, 0/37)
CN: 1>2,1; 1,1



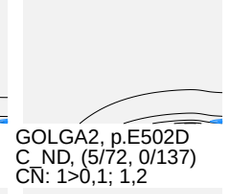
ANKHD1, p.A421T
C_ND, (4/51, 0/67)
CN: 1,1; 2>1,1



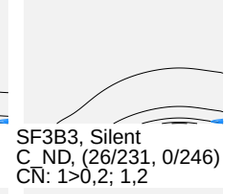
NPC1, p.D857G
C_ND, (5/58, 0/56)
CN: 1,1; 2,2



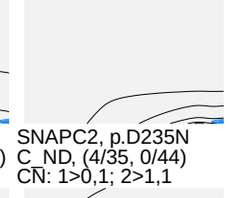
GOLGA2, p.E502D
C_ND, (5/72, 0/137)
CN: 1>0,1; 1,2



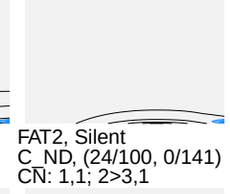
SF3B3, Silent
C_ND, (26/231, 0/246)
CN: 1>0,2; 1,2



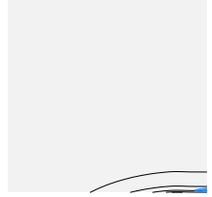
SNAPC2, p.D235N
C_ND, (4/35, 0/44)
CN: 1>0,1; 2>1,1



FAT2, Silent
C_ND, (24/100, 0/141)
CN: 1,1; 2>3,1



RC3H1, p.E685Q
C_ND, (11/109, 0/156)
CN: 1,1; 1,2



ADAMTSL4, p.S32fs
C_ND, (9/87, 0/101)
CN: 1>0,1; 2>1,2