**uno alleles**

uno[cc1]: sequence spanning deletion break points ATAAGACTTATGCCGG-deletion-ACTGcgAAgAGTCCTC, initiation codon, small letters indicate poor sequence quality.

the predicted protein product still has the first two aa (MP) fused by an out of frame deletion to 35 extra aa (DCEESSTALLCRCQSPNPTGQEHPDEYIFFKSSGW\*) before running into a stop.

uno[cc2]: sequence spanning deletion break points ACTTATGCCGGCACTTACCAGTAAGTGCTTAC-deletion-CAGGACTGCGAAGAG, initiation codon, extra DNA sequence.

the predicted protein product still has the first five aa (MPALT) fused via extra nucleotides and by an out of frame deletion to 35 extra aa (SKCLPGLRRVLHGASLPLPIPQPHWPRAPRRIHLL\*) before running into a stop.

uno[cc3]: sequence spanning deletion break points ATGCCGGCACTTACCCACCA-deletion-GGACTGcGAagAGTCCTCCACG, initiation codon, small letters indicate poor sequence quality.

the predicted protein product still has the first seven aa (MPALTHCQ) fused by an out of frame deletion to the same 35 extra aa as in cc1 before running into a stop.

uno[cc4]: sequence spanning deletion break points ATGCCGGCACTT ACCCACCAAATCTTAACCATCTTA-deletion-ACGGGCATCCTCCAAGT, initiation codon, extra DNA sequence.

the predicted protein product still has the first ten aa (MPALTHQILT) fused via extra nucleotides and by an out of frame deletion to 12 extra aa (sequenced fragment not long enough to reach the stop, but predicted to be ILTGILQVYKFS\*)

**CG32117 alleles**

CG32117[cc1]:

breakpoint DNA sequence: TCCTCGTGGACGCCCTACATC CAGCTgg GGAGCTGGGGATCAA

predicted protein sequence: MTSFQIRLISDQNLVLVDALH21 PAGELGINER\*SP\*ND

CG32117[cc2]:

breakpoint DNA sequence: CTGGTCCTCGTGGACG T AGCTGGGGATCAAC

predicted protein sequence: MTSFQIRLISDQNLVLVD18 VAGDQRTLKSVKR\*

CG32117[cc3]:

breakpoint DNA sequence: GTGGACGCCCTACAT GATCTTTTTC GGATCAACGAA

predicted protein sequence: MTSFQIRLISDQNLVLVDALH21 DLFRINER\*SP\*ND

CG32117[cc4]:

breakpoint DNA sequence: TCCTCGTGGACGCCCTAC TT GATCAACGAACGTTGAA

predicted protein sequence: MTSFQIRLISDQNLVLVDAL20 LDQRTLKSVKR\*

left flanking DNA sequence, right flanking DNA sequence

normal protein sequence, abnormal coding sequence (resulting after frame shift)