

## Alternatively spliced isoforms of nonmuscle myosin heavy chain II-C (NMHCII-C)

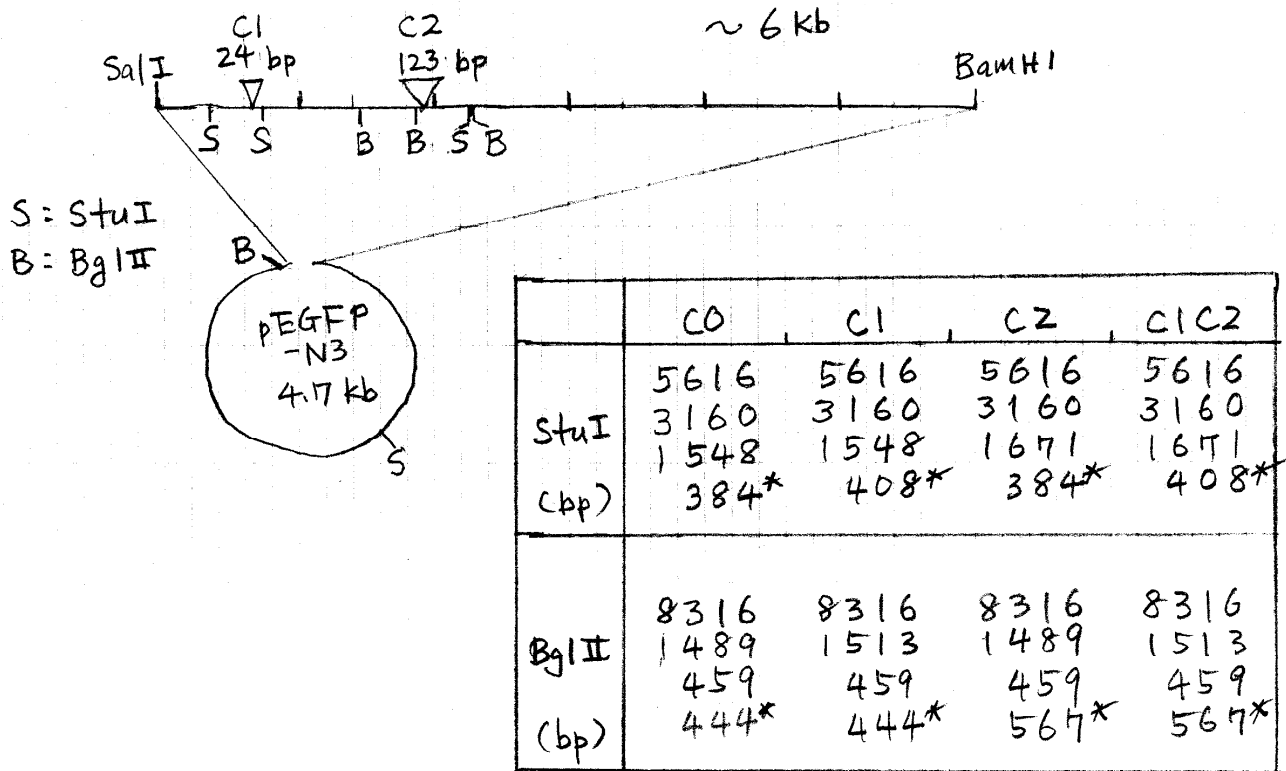
Mouse Myh14 gene encoding NMHCII-C contains two alternative exons.

- Alternative exon C1: GCCTCCGTCAGCACCATGTCTTAT (24 nts)
- Alternative exon C2:  
 AACAAAGGGGGTCTCCAACAGTTCACTTTACTTGGCTCCTTCCCATCGCCGTCCCCTG  
 GACCTGCAGGGAGACTCGGCTCTGGCGCTTCTCCTCCAGGGGTTGGGTCTCTCTGT  
 GCACCCACGG (123 nts)

Splice isoforms of NMHCII-C

- NMHCII-C0 excludes both alternative exons C1 and C2.
- NMHCII-C1 includes exon C1 (nucleotides 682-705, where 1 is the A of the initiating methionine codon, ATG) but not exon C2.
- NMHCII-C2 includes exon C2 (1910-2032) but not exon C1.
- NMHCII-C1C2 includes both exon C1 (682-705) and exon C2 (1934-2056).

### NMHCII-C-GFP Splice Isoforms



\* diagnostic fragments