

gene before retrocopy insertion

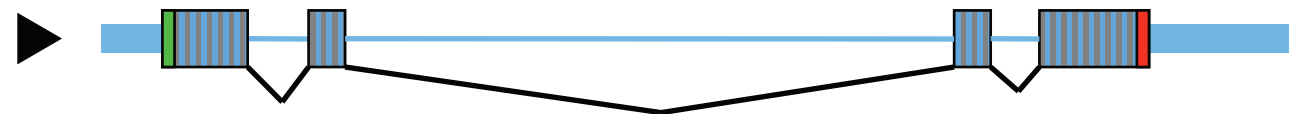
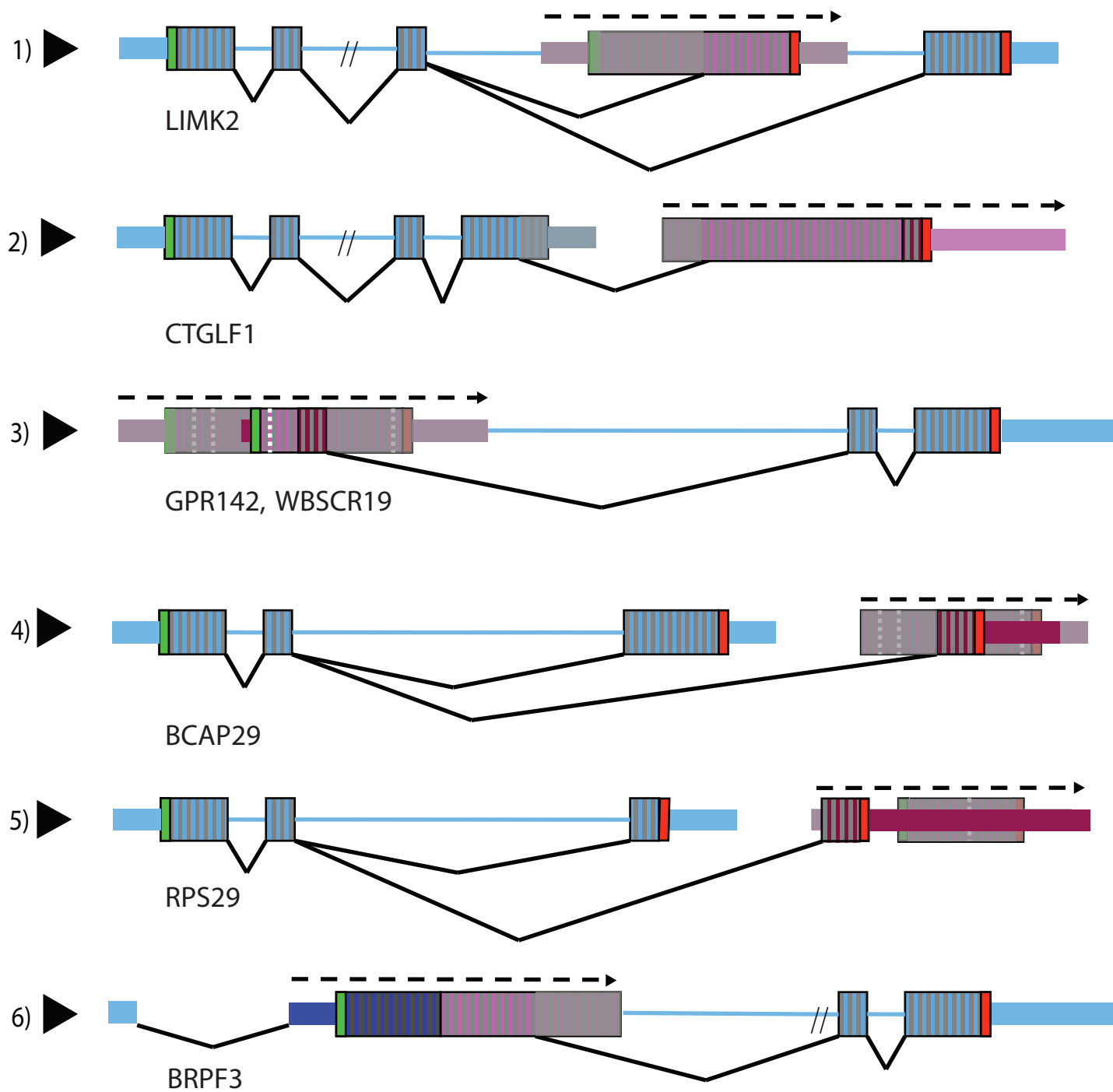


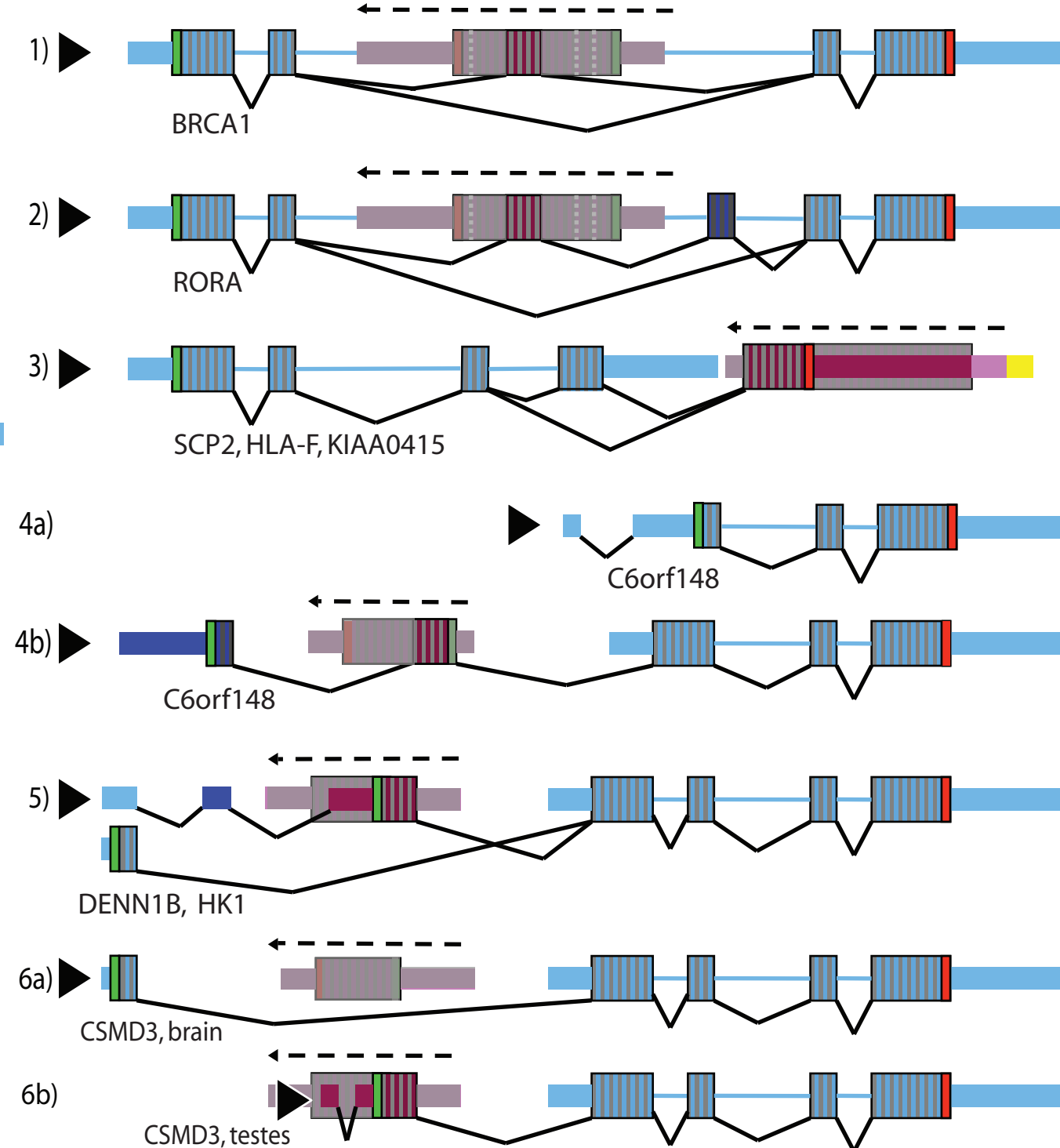
Figure 1A - exon acquisition from retrocopies



---> Direction of transcription of parent gene

in frame protein coding region contribution by the retrocopy
 UTR derived from retrocopy UTR
 UTR from retrocopy coding region
 retroposed sequence not incorporated into ORF or UTR of new gene variant
 out of frame or reverse orientation or UTR contribution by the retrocopy
 UTR from retrocopy coding region
 transposed elements contributions to novel gene candidates

Figure 1B - Anti-sense exon acquisition from retrocopies



formerly intergenic or intronic sequence recruited as ORF
 formerly intergenic or intronic sequence recruited as UTR
 start codon
 stop codon
 promoter
 former splice sites in parent gene
 host gene ORF
 UTR from host gene