

## Alignments of microhomology regions

The microhomology sites are highlighted.

### A. Human-specific L1IMD

>LH17

```
          10
.....|.....|.....|
AAAATGAATAAACCA (Chimpanzee target sequence)
GAAACTAACAAACA (L1.3 consensus sequence)
```

>LH26

```
          10
.....|.....|.....|
AAGATGAAAATTATT (Chimpanzee target sequence)
CAACTTACAAGGGAT (L1.3 consensus sequence)
```

>LH27

```
          10
.....|.....|.....|
GCCAACCCAGGAGAAG (Chimpanzee target sequence)
ACCCATTGTCTCAG (L1.3 consensus sequence)
```

>LH28

```
          10
.....|.....|.....|
GGTTGCAGTGAGCCA (Chimpanzee target sequence)
ATCTGTACATCACCA (L1.3 consensus sequence)
```

>LH30

```
          10
.....|.....|.....|
CTTGCCTTGAGAAAT (Chimpanzee target sequence)
CAAAGGACTATAAAT (L1.3 consensus sequence)
```

>LH31

```
          10
.....|.....|.....|
TGAAATTGAAATTCA (Chimpanzee target sequence)
CATAAGTGAAGGAGA (L1.3 consensus sequence)
```

### B. Chimpanzee-specific L1IMD

>LC4

```
          10
.....|.....|.....|
TTTAAGTATATAGGA (Human target sequence)
AAATGATAAAGGGGA (L1.3 consensus sequence)
```

>LC16

```
          10
.....|.....|.....|
CTTCCAATTTTATA (Human target sequence)
TAGCAGAAGGCAAGA (L1.3 consensus sequence)
```

>LC28

10  
.....|.....|.....|  
GTCATATATATATGA (Human target sequence)  
GCCAGGCAGAGACAC (L1.3 consensus sequence)

>LC29  
10  
.....|.....|.....|  
GACAAACCCCTGGGAA (Human target sequence)  
CAACCAGATTCATAA (L1.3 consensus sequence)

>LC30  
10  
.....|.....|.....|  
AGAATTTCTGATGAA (Human target sequence)  
GGAAGTCAGTGTGGT (L1.3 consensus sequence)

>LC31  
10  
.....|.....|.....|  
AACTGTGCATGTTAC (Human target sequence)  
TTCAAAC TATACTAC (L1.3 consensus sequence)