

GLXr-2 alternative splicing

The coding sequence of GLXr-2 isoform I terminates in exon 8, whereas isoform II splices out of exon 8 (at #) before reaching the termination codon and adds a unique carboxy-terminus encoded in exon 9 (85bp). See Figure 6. Underlined (bold letter) sequences indicate positions for the primers that amplify the two products: 548 bp for Isoform I and 455 bp for Isoform II.

Exon 7 (371 bp)

GCAGCCTTCGACTGGCGAGCAACGACCCGTTGCGCAAACCAGTGATCCACGGCAATTAT
TTGAGCGACCCGATGGACGAGGCAGTCCTTCTCCACGGGATTCGGATAGCCCTGTCGCT
GAGCAACACGAGCGCGTTGGCCAGGTACAACATGACTCTCGCCAAACCTCCCTCTCCCCG
CCTGCTCCCAGCACACGTATCTAAGCGACGACTACTGGAGGTGCGCCATGCGCCAGGAC
AC**CGGCCCCGGAGAATCATCAG**GCCGGTTCCTGCAAAATGGGCCCGGTCAGCGACCGGAT
GGCGGTGGTCGACCCGAGGCTGAGGGTGACGGCGTCGACGGTTTGCGCGTGGCTGACA
CGTCCATCATGCCCAAG

Exon 8 (95 bp)

GTGACGTCCGGGAACACGGCCGCTCCAGCGATCATGATCGGCGAGAGGGCAGCGGCTTT
CGTCAAGTCTGACTGGGGTGGCGCGCCTGCAAAATG#

Exon8 (43 bp)

GTACGGGCATACTTCTTCTTCCCATCTGTGGAGAGAGGCGTGA (stop for
Isoform I)

Intron (50 bp)

CGGAGTAGAGAGGAGTACGATAGTCAAATATTTGCCATATATTTCCATAG

Exon9 (85 bp)

TAGCCCCCGTCCCGAGATCGACAACCTCGTTGGAAGTGTGCACTGGGGGATCAAATACA
ACGACTGGGACCAGGGCGACTGGTAG (stop for Isoform II)

3' UTR

TCAACGTCCTCGAGATCTCACTAGATCCGGATAACCGGTTTTATCCCTTCGATCGGGAG
AAAGTATTCCAGATAGTTTCTTCTCCTTTTCAACATCCACTCTTTGTAACAAACGTC**GAGACCAAAGAAATGTAAATGCGGAT**TC**CAATAAA** (putative poly(A) signal)