

## 9. APPENDIX

### 9.1 Sequence analysis of the hALC-1 promoter

Sequence 1	AACAGAAATTA	GTGGGCCAG	CTCTGCCTAT	AAGTAGCTGA	ATGCTTGAG	GCAACTTCAA	CGTTCCTG	GACCTTAGAT
Sequence 2	TCCTTCCCTG	TAAAAACAGCA	TGGGGCCAGA	TGATCTCTAA	GGCTCCTCT	GGCTCTGAAG	GCAATGATCT	GGGGCATGGA
Identity	*****	*****	*****	*****	*****	*****	*****	*****
<b>hALC-1 promoter in reporter gene construct</b>								
Sequence 1	ACCTGFACTT	ASAGACCTGG	GAAATGGGCA	GATGTGGCT	CCAGGGCACC	CAGAAATGCA	GCCTTAGGAS	CTAACACCAA
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	CCAGGATTCF	GTAGCTAGC	AATCTGCCT	TACAGGTGAG	GAAACTGGGC	CTAGAAAGGC	GAAAGTATTT	TTTTGCCTCF
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	CTCAGCTTTA	TCCCTCTTT	CCTCTGAAT	GTAGAGTCTA	AAGATTGAGC	ACAAAGCAGT	TTGTGTAGT	GGATACATAA
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	GCCTTTTGT	TGTTATTTT	CTGAATTAT	TTGTGACTT	TCAAAGTTT	TTTTACATAA	ACAGTAAATG	CTCGTTATAA
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	AAATTECCAT	TAATACAGG	AGTGAAGAAA	GTAAGAAACT	GCAAATTGCT	GTTATCTCC	CACCCCTACC	CCTAGGTC
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	CCAGAGGTGT	CTCTGTAAAC	AGTTCAGCGT	GTATCCATCC	TGACTCCFCC	AATAAATGCA	GAAACTGTGA	TGCTCTCCC
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	CGACAACCTGG	ATTATCATAT	ACATTAATCA	AGCATAGGCT	TTAGACTCAG	ACATATCTAC	ATCTAATCCC	AGCTTATAGC
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	TAATTATTG	AGTGCCTTG	GCCAAAGTGT	TCATCCAGT	TTAGTCTCAA	TCTCCCCATG	TGTAAAAATGA	AAATAATAAT
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	AGTATCTACC	TGGCCFPGCS	TGGCGGCTFA	TGCCATAAAT	CCCAGCCCT	TGGAAAGCCG	AGGCTAGTGG	ATCCCTGAG
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	CTCAGGAGT	CAAGACCAAC	CTGGGCAAT	TAGCAAGACC	TCATCTCTAC	TGAAAAACAA	AAAAACAAAA	AAGTCCCCCA
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	AAATTAGCCA	AGTGTGCTGG	TGTGCACCTG	TAGTCCCAGC	TACTCGAAG	GCTGAGGTGG	GAGAATCGCT	TGAGCCAGGA
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	AAGACGAGGC	TGCASTGAGC	TGTGATTGCA	CCACTGCACT	GCAACCTGAG	CAACAGAGCC	ATACCTTGTT	TCTGTAAAAA
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	CAAAACAACA	AACAAAATAG	TATCTACCTT	ATAGGATCAT	GGTGAAGATT	TAATGAGATT	TTATATGAAT	AGCAGCTAAC
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	AGTTCCTGGT	ACTGATAGTA	GTAAGCACFA	CACACACACA	CACACACACA	CACACACACA	CACACAGAGC	ACAGAAATGAG
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	TTAGAGGTAA	AGTGAAGAACT	AAACCCCAAG	TTTTCTGACC	CTCAGTCTCC	TGGACTTCT	ACCACATCTC	TCTGCTCTC
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	TCTAGGTTGC	CTAGGCATGG	GTTCACTGCT	CACTACTTGT	TGAATGAATG	ACTGAGGTGG	TGTGTAAAGG	GGTAGATCTA
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	GGGATCTGAG	GTCCTPGGAG	TTCCTGGGAT	GCCTGCTCTG	GAAATGGAG	GCTTTCATCC	TGTGAGTGG	GAGGGGTGG
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	GGCAGTGTGG	GTGGCTGGA	CCAGCTGTG	CTTCAGAGCT	CCATGCCFGG	AGAGTTGGGC	CTTAGGCAG	AGCTGAGGGC
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	CCAGAGTGGC	TCTCAGCTTA	AAGGATCTG	GCTTAGAAGG	AATGTGCACT	GGGCTGCCTC	TGCTCGGGAG	GGGCTAAAAA
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	AAGCCCTACC	CTCCCTGGG	CTTGTGTGGA	GCCTATCAA	CTGCTCAAAT	CAGCTCATCT	CTCTGGCTGC	TCCGGCATAT
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	TGAGAAAGGT	CTGTFCCCT	GGTCTCTCF	GGTFCCACC	AATGGCAAG	AAGGGATCAG	CCTCTCTAG	AGGTGAAGAG
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	AGAGCTGTGG	CATGAAGGGG	AGGGGGCTGG	TGGCCCCAAA	CCTGGTGACA	ATACACAGTT	GTGAGCTGTA	CCTGTGTGGC
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	GTTCCTCCT	TTTATAGTCA	GCAAGAGTGT	CTCTGCTTT	CACCCAGCCC	CTCTGTGGGG	CTCTGCCCCA	GGATAAAAGG
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	GAAGGAGAGC	AGCCAGGCT	CCTATCTCAT	CTCCAGAGC	CCAGTCTCT	CGTTCTTC	TTAGATCAGT	CCTCTGCCAA
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	hALC-1 promoter in reporter gene construct	AGTAAACAT	GCCTCCGAG	AAGCCTGAGC	CTAAGAAGGA	GGCAGCCAAG	CCAGCTCCAG	CTCCAGCTCC
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
<b>Translation start site</b>								
Sequence 1	AGCCCCGCA	CCAGCCCCG	CCCCAGCTCC	TGAGGCTCCC	AAGCAACCTG	CCTTGACCC	CAAGAGTGA	AAGGTAAGTG
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	AGGCTCAGCC	ATTGGGATAG	AGGTGGGGAT	GACATTGAGA	GTCCCTTTCG	TCTGGAGCTT	AGCGATCTAC	TTTATGTGGG
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	CTGGACTGGG	ATGAGGACTA	GGTGTCCAT	GCCCCAGATC	GCACTCCCAT	GGGGAGTGG	AGTGGGTGTT	GGGGCTGATG
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	AGGGGGAGAT	TGAGTCATAA	ACCTTTTCGG	TCAAAGAAATGA	GGTGTCTGTT	TGAGGGAGCC	CTGTCTGCT	ACCTTAGATT
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	TGTGCAGCTA	AGTGGGAAT	GGGGGGAGGT	ACAACCAACC	ATCCATCCAC	CCTTTTATAA	GGCATTAAATG	AGGACCACCA
Sequence 2	*****	*****	*****	*****	*****	*****	*****	*****
Identity	*****	*****	*****	*****	*****	*****	*****	*****
Sequence 1	TAGCAAAACTA	AA						
Sequence 2	*****	*****						
Identity	*****	*****						

Figure 26. Comparison of the published sequence (sequence 1, hALC-1 promoter and exon 1) with the analyzed human ALC-1 promoter sequence within the reporter gene construct (sequence 2). The alignment verifies the correctness of the amplified sequence (Identity \*).

## 9.2 Publications

### Articles

Woischwill, C.; Karczewski, P.; Bartsch, H.; Luther, H. P.; Kott, M.; Haase, H.; Morano, I. (2005). Regulation of the human atrial myosin light chain 1 promoter by Ca<sup>2+</sup>-calmodulin-dependent signaling pathways. *FASEB J. Apr*; 19 (6), 503-11

Gessner, C.; Woischwill, C.; Schumacher, A.; Liebers, U.; Kuhn, H.; Stiehl, P.; Jürchott, K.; Royer, H. D.; Witt, C.; Wolff, G. (2004). Nuclear YB-1 expression as a negative prognostic marker in nonsmall cell lung cancer. *Eur. Respir. J. Jan*; 23 (1), 14-9

Van Riet, I.; De Greef, C.; Aharchi, F.; Woischwill, C.; De Waele, M.; Bakkus, M.; Lacor, P.; Schots, R.; Van Camp, B. (1997). Establishment and characterization of a human stroma-dependent myeloma cell line (MM5.1) and its stroma-independent variant (MM5.2). *Leukemia Feb*; 11 (2), 284-93

### Abstracts

Morano, I.; Woischwill, C.; Abdelaziz, A. I.; Karczewski, P.; Bartsch, H.; Kott, M.; Haase, H. Transcription regulation and function of the human atrial myosin light chain 1 in the heart. *European Muscle Conference, 2004, Elba, Italy*

Woischwill, C.; Bartsch, H.; Pierschalek P.; Karczewski P.; Morano, I. Transcriptional regulation of the human atrial myosin light chain 1 gene. *European Muscle Conference, 2003, Montpellier, France*

De Greef, C.; Woischwill, C.; Van Camp, B.; Van Riet, I. The MM5 cell lines: A model to study different gene expression in stroma-dependent and stroma-independent myeloma cells. *12<sup>th</sup> General Meeting of the Belgian Hematological Society, 24-27<sup>th</sup> January 1997, Genval, Belgium*

De Greef, C.; Woischwill, C.; Van Camp, B.; Van Riet, I. The establishment and molecular characterization of a stroma-dependent MM cell line (MM5.1) and its stroma-independent variant (MM5.2) (1996). *Clin. Exp. Metastasis*; 14 (suppl.1), 13