

EKA protein sequences – **red color** indicates genomic insert

EKA1 protein sequence (genomic insert + vector sequence)

MGSDKIIHLTDDSFDTDVLKADGAILVDFWAHWC GPCCKMIAPILDEIADEYQGKLT V
AKLNIDHNPGTAPKYGIRGIPTLLLFKNGEVAATKVGALSKGQLKEFLDANLAGSGS
GDDDDKLGIDPFT**TFHTPTIQRRNQLSILHQTLPSLRLLLALLANPT**GRASSSLKVS
LSLTLSSVSILRVPVITITIEFKRSPA WLFWRMREDFQPD TD

EKA2 protein sequence (genomic insert + vector sequence)

MGSDKIIHLTDDSFDTDVLKADGAILVDFWAHWC GPCCKMIAPILDEIADEYQGKLT V
AKLNIDHNPGTAPKYGIRGIPTLLLFKNGEVAATKVGALSKGQLKEFLDANLAGSGS
GDDDDKLGIDPFT**KRVSRQOGIILRF SHTFHTPTIQRRNQLSILHQTLPSLRLLLAL**
LAKGELKLEGKPIPNPLLGLDSTRTGHHHHHH

EKA3 protein sequence (genomic insert + vector sequence)

MGSDKIIHLTDDSFDTDVLKADGAILVDFWAHWC GPCCKMIAPILDEIADEYQGKLT V
AKLNIDHNPGTAPKYGIRGIPTLLLFKNGEVAATKVGALSKGQLKEFLDANLAGSGS
GDDDDKLGIDPFT**VGSRLLS DATLCVLS DLQFS SPPRPDKSRQRRIRHRLSDATLCV**
LSDLQFSAPRRPDKSRQRRIRHRLSDATLCVLS DLQFSAPRRPDKSRQRRIRHRLSD
ATPSVLS DLQFSAPRRPDKSRQRRIRHRLSNTINGRFLFHLATKGELKLEGKPIPNP
LLGLDSTRTGHHHHHH

EKA4 protein sequence (genomic insert + vector sequence)

MGSDKIIHLTDDSFDTDVLKADGAILVDFWAHWC GPCCKMIAPILDEIADEYQGKLT V
AKLNIDHNPGTAPKYGIRGIPTLLLFKNGEVAATKVGALSKGQLKEFLDANLAGSGS
GDDDDKLGIDPFT**VKRKPSSTGARMMLRKILYSAGESTLSPWTRRITM**KGELKLEGK
PIPNPLLGLDSTRTGHHHHHH

EKA5 protein sequence (genomic insert + vector sequence)

MGSDKIIHLTDDSFDTDVLKADGAILVDFWAHWC GPCCKMIAPILDEIADEYQGKLT V
AKLNIDHNPGTAPKYGIRGIPTLLLFKNGEVAATKVGALSKGQLKEFLDANLAGSGS
GDDDDKLGIDPFT**TRHLYASVNPVRIASVVLGTALNDRYDNANYRRCPTIDRSRKT V**
KAPKGELKLEGKPIPNPLLGLDSTRTGHHHHHH

EKA6 protein sequence (genomic insert + vector sequence)

MGSDKIIHLTDDSFDTDVLKADGAILVDFWAHWC GPCCKMIAPILDEIADEYQGKLT V
AKLNIDHNPGTAPKYGIRGIPTLLLFKNGEVAATKVGALSKGQLKEFLDANLAGSGS
GDDDDKLGIDPFT**HTPTIQRRNQLSILHQTLPSLRLLLALLANPT**KGELKLEGKPIPN
NPLLGLDSTRTGHHHHHH