

Figure ESI1

Entire amino acid sequence of zmARGOS8

MMLHCTFAISEAPARALALGQVSMRAMPQEEEEAAVATTTMAGGKVAALLATAAALLLPLALPPLPPPPTQLLFVPVLLLLVASLAFCP
AATSSPSMHAADHGSFGTTGSPHLC

Figure ESI2

Sequence alignment of endogenous and transgenic gmDGAT1

	1	50
Endogenous	MAISDEPESVATALNHSSLRRRPSATSTAGLFNSPETTTDSSGDDLAKDS	
Transgenic	MAISDEPESVATALNHSSLRRRPSATSTAGLFNSPETTTDSSGDDLAKDS	
	51	100
Endogenous	GSDDSINSDDAAVNSQQQNEKQDTDFSVLKFAIRPSVPAHRKVKESPLSS	
Transgenic	GSDDSINNDDAAVNSQQQNEKQDTDFSVLKFAIRPSVPAHRKVKESPLSS	
	101	150
Endogenous	DTIFRQSHAGLFNLCIVVLVAVNSRLIIENLMKYGWLIKSGFWFSKSLR	
Transgenic	DTIFRQSHAGLFNLCIVVLVAVNSRLIIENLMKYGWLIKSGFWFSAKSLR	
	151	200
Endogenous	DWPLFMCCSLVVFPPFAAFIVEKLAQRKCIPEPVVVVLIHIIITSTSLFYP	
Transgenic	DWPLFMCCSLVVFPPFAAFMVEKLAQRKCIPEPVVVVLIHIIITSTSLFYP	
	201	250
Endogenous	VLVILRCDSAFVSGVTLMLFSCVVWLKLVSYAHTNYDMRALTKLVEKGEA	
Transgenic	VLVILKCDLAFVSGVTLMLFSCVVWLKLVFAHTNYDMRALTKLVEKGEA	
	251	300
Endogenous	LLDTLNMYPYVNSFKSLAYFLVAPTLCYQPSYPRTPYIRKGWLFRLVK	
Transgenic	LLDTLNMVYPYVNTFKSLAYFLVAPTLCYQPSYPRTPYIRKGWLFRLVK	
	301	350
Endogenous	LIIFTGVMGFIIIEQYINPIVQNSQHPLKGNLLYATERVLKLSVPNLYVWL	
Transgenic	LIVFTGVMGFIIIEQYINPIVQNSQHPLKGNLLYATERVLKLSVPNLYVWL	
	351	400
Endogenous	CMFYCFFHLWLNILAELLRFGDREFYKDWWNAKTVEDYWRMWNMPVHKWM	
Transgenic	CMFYCFFHLWLNIVAELLRFGDREFYKDWWNAKTVEDYWRMWNMPVHKWM	
	401	450
Endogenous	IRHLYFPCLRHGLPKAAALLIAFLVSALFHEL CIAVPCHI FKLWAFGGIM	
Transgenic	IRHLYFPCLRHGLPKAAALLISFLVSALFHEL CIAVPCHMFKLWAFGGIM	
	451	500
Endogenous	FQVPLVLIITNYLQNKFRNSMVGNMIFWFI FSI LGQPMCVLLYYHDL MNRK	
Transgenic	FQVPLVLIITNYLQNKFKNSMVGNMIFWFI FSI VLGQPMCVLLYYHDL MNRK	
	501	
Endogenous	GKLD	
Transgenic	GKLD	