

PRIMATE SDR42E VARIANTS

		x x x	
SDR42E1	<i>H. sapiens</i>	MDPKRSQKESVLITGGSGYFGFrlGCALNQNGVHVLFDISSPAQTIP EGIKFIQGDIRH	1p.
SDR42E1	<i>P. troglodytes</i>	MDPKRSQKETVLITGGSGYFGFrlGCALNQKGVHVLFDISSPAQTIP EGIKFIQGDIRH	1p.
SDR42E1	<i>P. paniscus</i>	MDPKRSQKETVLITGGSGYFGFrlGCALNQKGVHVLFDISSPAQTIP EGIKFIQGDIRH	1p.
SDR42E1	<i>N. leucogenys</i>	MDPQRPQKETVLITGGSGYFGFrlGCALNQKGVHVLFDISSPAQTIP EGIKFIRGDIRH	1p.
SDR42E1	<i>M. mulatta</i>	MDPKRSQKETVLITGGGGYFGFrlGCALNQKGVHVLFDISSPAETIP EGIKFIQGDICH	1p.
SDR42E1	<i>P. anubis</i>	MDPKRSQQETVLITGGGGYFGFrlGCALNQKGVHVLFDISSPAETIP EGIKFIQGDIRH	1p.
SDR42E1	<i>C. jacchus</i>	MDPKRSPKETVLITGGGGYFGFrlGCALNQKGVHVLFDINSPAQTVP EGIKFIQGDIRH	1p.
SDR42E1	<i>M. murinus</i>	MDAEKSPAETVLITGGGGYFGF-1GCALNQQGVHVLFDINSPAETIP EGIKFARGDIRH	1p.

SDR42E1	<i>H. sapiens</i>	TSTFNVIFGGQVIRNGDESLPYLPLHLPDHYSRTKSIAEQKVLEANATPLDRGDGVLR+
SDR42E1	<i>P. troglodytes</i>	TSTFNVIFGGQVIRNGDESLPYLPLHLPDHYSRTKSIAEQKVLEANATPLDRGDGVLR+
SDR42E1	<i>P. paniscus</i>	TSTFNVIFGGQVIRNGDESLPYLPLHLPDHYSRTKSIAEQKVLEANATPLDRGDGVLR+
SDR42E1	<i>N. leucogenys</i>	TSTFNVIFGGQVIRNGDESLPYLPLHLPDHYSRTKSIAEQKVLEANATPLDRGDGVLR+
SDR42E1	<i>M. mulatta</i>	TSTFNVIFGGQVIRNGDESLPYLPLHLPDHYSRTKSIAEKKVLEANATPLDRGDGVLR+
SDR42E1	<i>P. anubis</i>	TSTFNVIFGGQVIRNGDESLPYLPLHLPDHYSRTKSIAEKKVLEANATPLDRGNGVLR+
SDR42E1	<i>C. jacchus</i>	TSTFNVIFGGQVIRNGDESLPYLPLHLPDHYSRTKSIAEKKVLEANATPLNGGGDVLRT
SDR42E1	<i>M. mурinus</i>	TSTFNVIFGGQVIRNGDESLPYLPLHLPDHYSRTKSIAEKRVLEANATLLETGDGVLRT

SDR42E1	<i>H. sapiens</i>	CALRPAGIYGPGEQRHLPRIVSYIEKGLFKFVYGDPRSLVEFVHDNLVQAHILASEALR
SDR42E1	<i>P. troglodytes</i>	CALRPAGIYGPGEQRHLPRIVSYIEKGLFKFVYGDPRSLVEFVHDNLVQAHILASEALR
SDR42E1	<i>P. paniscus</i>	CALRPAGIYGPGEQRHLPRIVSYIEKGLFKFVYGDPRSLVEFVHDNLVQAHILASEALR
SDR42E1	<i>N. leucogenys</i>	CALRPAGIYGPGEQRHLPRIVSYIEKGLFKFVYGDPRSLVEFVHDNLVQAHILASEALR
SDR42E1	<i>M. mulatta</i>	CALRPAGIYGPGEQRHLPRIVSYIEKGLFKFVYGDPRSLVEFVHDNLVQAHILASEALR
SDR42E1	<i>P. anubis</i>	CALRPAGIYGPGEQRHLPRIVSYIEKGLFKFVYGDPRSLVEFVHDNLVQAHILASEALR
SDR42E1	<i>C. jacchus</i>	CALRPAGIYGPGEQRHLPRIVSYIEKGLFKFVYGDPSLVEFVHDNLVQAHILALEALR
SDR42E1	<i>M. mурinus</i>	CALRPAGIYGPGERRLPRIVSYIERGLFKFVYGDPSLVEFVHDNLVQAHILASEALK

SDR42E1	<i>H. sapiens</i>	ADKGHIASQPYFISDGRPVNNFEFFRPLVEGLGYTFPSTRPLTLVYCF AFLTEMVHFI
SDR42E1	<i>P. troglodytes</i>	ADKGHIASQPYFISDGRPVNNFEFFRPLVEGLGYTFPSTRPLTLVYCF AFLTEMVHFI
SDR42E1	<i>P. paniscus</i>	ADKGHIASQPYFISDGRPVNNFEFFRPLVEGLGYTFPSTRPLTLVYCF AFLTEMVHFI
SDR42E1	<i>N. leucogenys</i>	ADKGHIASQPYFISDGRPVNNFEFFRPLVEGLGYTFPSTRPLTLVYCF AFLTEMVHFI
SDR42E1	<i>M. mulatta</i>	ADKGHIASQPYFISDGRPVNNFEFFRPLVEGLGYTFPSTRPLTLVYCF AFLTEMVHFI
SDR42E1	<i>P. anubis</i>	ADKGHIASQPYFISDGRPVNNFEFFRPLVEGLGYTFPSTRPLTLVYCF AFLTEMVHFI
SDR42E1	<i>C. jacchus</i>	ADKGHIASQSYFISDGRPVNNFEFFRPLVEGLGYTFPSTRPLTLVYCF AFLTEMVHFI

SDR42E1 M. murinus	ADKGYIASGQPYFISDGRPVNNEFFRPLVEGLGYTFPSTRLPLYLIYCFALTEMAHFL ***** ***** *****
SDR42E1 H. sapiens	LGRLYNFQPFLTRTEVYKTGVTHYFSLEKAKKELGYKAQPFDLQEAVWFKAHGHGRSSG
SDR42E1 P. troglodytes	LGRLYNFQPFLTRTEVYKTGVTHYFSLEKAKKELGYKAQPFDLQEAVWFKAHGHGRSSG
SDR42E1 P. paniscus	LGRLYNFQPFLTRTEVYKTGVTHYFSLEKAKKELGYKAQPFDLQEAVWFKAHGHGRSSG
SDR42E1 N. leucogenys	LGRLYNFQPFLTRTEVYKTGVTHYFSLEKAKKELGYKAQPFDLQEAVWFKAHGHGRSSG
SDR42E1 M. mulatta	LGRLYNFQPFLTRTEVYKTGVTHYFSLEKAKKELGYKAQPFDLQEAVWFKAHGHGRSSG
SDR42E1 P. anubis	LGRLYNFQPFLTRTEVYKTGVTHYFSLEKAKKELGYKAQPFDLQEAVWFKAHGHGRSSG
SDR42E1 C. jacchus	LGRLYNFQPFLTRTEVYKTGVTHYFSLEKAKKELGYKAQPFDLQEAVWFKAHGHGRSSG
SDR42E1 M. murinus	LGRLYNFQPFLTRTEVYKTGVTHYFSLEKAKKELGYEAQPFDLQEAVWFKAHGHGRSPG *****
SDR42E1 H. sapiens	SRDSECFVWDGLLVFLLIIAVLMWLPPSVILSL
SDR42E1 P. troglodytes	SRDSECFVWDGLLVFLLIIAVLMWLPPSVILSL
SDR42E1 P. paniscus	SRDSECFVWDGLLVFLLIIAVLMWLPPSVILSL
SDR42E1 N. leucogenys	SSDLECFVWDGLLVFLLIIAVLMWLPPSVILSL
SDR42E1 M. mulatta	SRDSECFIWDGLLVFLLIIAVLIWLPPSVILSL
SDR42E1 P. anubis	SRDSECFIWDGLLVFLLIIAVLIWLPPSVILSL
SDR42E1 C. jacchus	SRDSDCFVWDGLLVFLLIIATLTWLLSVILLL-
SDR42E1 M. murinus	SHGSEYHVWRGLLVFFLVIAVLTWLLPSVILLL * * * * *

Figure S49. Alignment of the primate SDR42E protein variants. For further details see Online Resources 2 Fig. S3.

* symbol marks the position of identical amino acid residues of the aligned SDR protein sequences.

SDR42E2	H. sapiens	MKSNPPRSSLEACKAAGQGEKSCPVCQACGEVSGPRSGSGSESRPAPKPGAIPGPGLGPK
SDR42E2	P. troglodytes	MKSNPPRSSLEACKAAGQGEKSCPVCQACGEVSGPRSGSGSESRPAPKPGAIPGPGLGPK
SDR42E2	P. paniscus	-----
SDR42E2	N. leucogenys	-----
SDR42E2	M. mulatta	MKSNPNGSSPEACKAAGQGEKSCPVCQACGEVSGPRSGLGSESGPAPKPGAIPGPGLGPK
SDR42E2	P. anubis	MKSNPNGSSPEACKFAAQGEKSCPVCQACGEVSGPRSGLGSESGPAPKPGAIPGPGLGPK
SDR42E2	C. jacchus	MKPNPPGSSPEACKAAGQGEKSCPVCQACGEVSGPRSGLGSESGPVPKPGAIPGPGLGPK
SDR42E2	M. murinus	MKPNPTG-----KAADQGEKSCPVCQACGGVSGPKSGLGPGPGP-----NSIPGQGAGPG

SDR42E2	H. sapiens	AIPGPQAGSGTVPRPGAIISGTGPGLGPGLGPAGSVPGPAGSVPGLGARSVPGPAGSVP
SDR42E2	P. troglodytes	AIPGPQAGSDTVPRPGAIISGTGPSLGPGLGPAGSVPGPAGSVP-----GPGAGSVP
SDR42E2	P. paniscus	-----
SDR42E2	N. leucogenys	-----
SDR42E2	M. mulatta	AIPGPQAGSGVAAPRPGAIISGTGPGLGPGLGPAGSVPGPAGSIPGLGAGSVPGPAGSIPG
SDR42E2	P. anubis	AIPGPQAGSGVALRPGAIISGTGLGLGPGLGPAGSVPGPVGSIPIGLGAGSVPGPAGSIPG
SDR42E2	C. jacchus	AIPEPVQVGSGAGLRPDTVSGTGPGLGPGLGPAGSVPAGARLAPAPGARSAPG
SDR42E2	M. murinus	SVPGPAGAVPGRGA-----GSGAVPGRGAG-----

SDR42E2	H. sapiens	PGAGSVPGPAGSVPGPAGSGPGLGGGLGPVGAGPGAGSVPGPAGSVPGPAGSVP
SDR42E2	P. troglodytes	LGAGSVPGPAGSVPGPAGSGPGLGAGLGPGLGAGPGAGSVPGPAGSVP-----
SDR42E2	P. paniscus	-----
SDR42E2	N. leucogenys	-----
SDR42E2	M. mulatta	LGVGSI PGPGAGSILGPAGSGPGLGAGSGAPGPAGSVPGLGAGLGHGLGAGPEAGSVP
SDR42E2	P. anubis	LGVGSI PGPGAGSVLGPAGSGPGLGAGSGVPGPAGSVPGLGAGLGHGLGAGPEAGSVP
SDR42E2	C. jacchus	LGAESVPEPGAGLVPGPAGSAPGLGAGSVPVIGAGSVP-----PGAGSVP
SDR42E2	M. murinus	--PGAVPGRGAG-----PGAVPGRGAGPGAVPGPESGPAGAVLG

SDR42E2	H. sapiens	PGAGSVPGAGAGSTPEPELGPGLRQGSCTGPRPSESTTTPTPAPQQKTQAKPTKAARQKV
SDR42E2	P. troglodytes	-----PGAGSTPEPELGPGLRQGSCTGPKPSESTTTPTPAPQQKTQAKPTKAARQKV
SDR42E2	P. paniscus	-----MKSNPPRSSLEACKAAGqaPQQKTQAKPTKAARQKV 1p.2
SDR42E2	N. leucogenys	-----MKSNPNGS-SPDACKAVGqaPQQKTQAKPTKAARQKV 1p.2
SDR42E2	M. mulatta	PGAGSVPGPAGSTPEPELGPGRQGSCTGPKPKESTTTPTPAPQQKTQAKPTKVARQKV
SDR42E2	P. anubis	PGAGSVPGPAGSTPEPELGPGLRQGSCTGPKPKESTTTPTPAPQQKTQAKPTKVARQKV
SDR42E2	C. jacchus	LGSGSAPGPAGSTPEPELGSGLTQGSVTGPKLRESTATPTPAPQQKTQAKPTKAARQKV
SDR42E2	M. murinus	PGPGLGPAGSLPRPEVGPGRKGSGLKPSESMTTPAPAPQQKTQAKPEKAPRQKV
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SDR42E2	H. sapiens	LVTGGGGYLGFSLGSHLAKSGTSVILLDRRRPQWELSPETKFI qaDVRDEEALYRAFEGV 1p.0
SDR42E2	P. troglodytes	LVTGGGGYLGFSLGSHLAKSGTSVILLDCRRPQWELSPETKFI qaDVRDEEALYRAFEGV 1p.0
SDR42E2	P. paniscus	LVTGGGGYLGFSLGSHLAKSGTSVILLDRRRPQWELSPETKFI qaDVRDEEALYRAFEGV 2p.0
SDR42E2	N. leucogenys	LVTGGGGYLGFSLGSHLAKTGTTSVILLDRRRPQWELSPETKFI qaDVRDEEALYRAFEGV 2p.0
SDR42E2	M. mulatta	LVTGGGGYLGFSLGSHLAKSGTPVILLDRRRPQWELSPETEFI qaDVRDEEALYRAFKGV 1p.0
SDR42E2	P. anubis	LVTGGGGYLGFSLGSHLAKSGTPVILLDRRRPQWELCPTEFEI qaDVRDEEALYRAFKGV 1p.0
SDR42E2	C. jacchus	LVTGGGGYLGFSLGSHLAKSGTSVILLDRRRPQWELSPETEFI qaDVRDEAALYRAFEGV 1p.0
SDR42E2	M. murinus	LVTGGGGYLGFTLGSSIARSGTSVILLDLHRPQWTLPSTEFI qaDVRDEETLYRAFEGV 1p.0
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SDR42E2	H. sapiens	DCVFHVASYGMSGAE k 1QK-EQIESINVGGTKLVI	dcvCVRRLRVPRLLIYTSTVNVAFFGKP	2p.0	3p.
SDR42E2	P. troglodytes	DCVFHVASYGMSGAE k 1QK-EQIESINVGGTKLVI	dcvCVRRLRVPRLLIYTSTVNVAFFGKP	2p.0	3p.
SDR42E2	P. paniscus	DCVFHVASYGMSGAE k 1QK-EQIESINVGGTKLVI	dcvCVRRLRVPRLLIYTSTVNVAFFGKP	3p.0	4p.
SDR42E2	N. leucogenys	DCVFHVASYGMSGAE k 1QK-EQIESINVGGTKLVI	dcvCVRRLRVPRLLIYTSTVNVAFFGKP	3p.0	4p.
SDR42E2	M. mulatta	DCVFHVASYGMSGAE k 1QK-EQIESINVGGTKLVI	dcvCVRRLRVPRLLIYTSTVNVAFFGKP	2p.0	3p.
SDR42E2	P. anubis	DCVFHMASYGMSGAE k 1QK-EQIESINVGGTKLVI	dcvCVRQRVPRLLIYTSTVNVAFFGKP	2p.0	3p.
SDR42E2	C. jacchus	DCVFHMASYGMSGAE k 1QK-EQIESINVGGTKLVI	dcvCVRQRVPRLLIYTSTVNVAFFGKP	2p.0	3p.
SDR42E2	M. murinus	DCVFHMASYGMSGE k 1QK-EQIESINVGGTKLVI	dcvCVRRLRVPRLLIYTSTVNVAFFGKP	2p.0	3p.
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SDR42E2	H. sapiens	IEQGDEDSVPYFPLde h VDHYSRTKAIADQLTLMANGMPLpgGGTLRTCVLRPPGIYGPE	4p.0	5p.	
SDR42E2	P. troglodytes	IEQGDEDSVPYFPLde h VDHYSRTKAIADQLTLMANGTPLpgGGTLRTCVLRPPGIYGPE	4p.0	5p.	
SDR42E2	P. paniscus	IEQGDEDSVPYFPLde h VDHYSRTKAIADQLTLMANGTPLpgGGTLRTCVLRPPGIYGPE	5p.0	6p.	
SDR42E2	N. leucogenys	IEQGDEDSVPYFPLde h IDHYSRTKAIADQLTLMANGTPLpgGGTLRTCVLRPPGIYGPE	5p.0	6p.	
SDR42E2	M. mulatta	IEQGDEDSVPYFPLde h IDHYSRTKAIADQLTLMANGTPLpgGGALRTCVLRPPGIYGPE	4p.0	5p.	
SDR42E2	P. anubis	IEQGDEDSVPYFPLdk h IDHYSRTKAIADQLTLMANGTPLpgGGALRTCVLRPPGIYGPE	4p.0	5p.	
SDR42E2	C. jacchus	IQQGDEDSVPYFPLde h IDHYSRTKAIADQLTLMANGTPLpgGGI1RTCVLRPPGIYGPE	4p.0	5p.	
SDR42E2	M. murinus	IEQGDEDSVPYFPLdk h VDHYSRTKAIADQLTLMANGTPLpgGGTLRTCVLRPPGIYGPE	4p.0	5p.	
		*****	*****	*****	*****
SDR42E2	H. sapiens	EQRHLPRVagHIKKRLFMFRGDKARMNWVHVHNLVQAHVLAAEALTTAKGYVasGQAY	6p.0	7p.	
SDR42E2	P. troglodytes	EQRHLPRVagHIKKRLFMFRGDRKARMNWVHVHNLVQAHVLAAEALTTAKGYVasGQAY	6p.0	7p.	
SDR42E2	P. paniscus	EQRHLPRVagHIKKRLFMFRGDRKARMNWVHVHNLVQAHVLAAEALTTAKGYVasGQAY	7p.0	8p.	
SDR42E2	N. leucogenys	EQRHLPRVagHIKKRLFMFRGDRKARMNWVHVHNLVQAHMLASEALTAAKGYVasGQAY	7p.0	8p.	
SDR42E2	M. mulatta	EQRHLPRVagHIKKRLFMFRGDRKARMNWVHVHNLVQAHVLAAEALTAAKGYVasGQAY	6p.0	7p.	
SDR42E2	P. anubis	EQRHLPRVagHIKKRLFMFRGDRKARMNWVHVHNLVQAHVLAAEALTAAKGYVasGQAY	6p.0	7p.	
SDR42E2	C. jacchus	EQRHLPRVagHIKKRLFSFRGDRKAQMNWVHVHNVVQAHVLAAKALTVGKGYVasGQAY	6p.0	7p.	
SDR42E2	M. murinus	EQRHLPRVvsHLKKMLFMVRFGDRRTRMNWVHVHNLVQAHMLAAEALTAAKGYVasGQAY	6p.0	7p.	
		*****	*****	*****	*****
SDR42E2	H. sapiens	YINDGESVNLFEWMAP l fEKLGYSQPWIQVPTSWVYLtaAVMERLHLALRPICSLPPLLT	8p.0	9p.	
SDR42E2	P. troglodytes	YINDGESVNLFEWMAP l fEKLGYSQPWIQVPTSWVYLtaAVMERLHLALRPICSLPPLLT	8p.0	9p.	
SDR42E2	P. paniscus	YINDGESVNLFEWMAP l fEKLGYSQPWIQVPTSWVYLtaAVMERLHLALRPICSLPPLLT	9p.0	10p.	
SDR42E2	N. leucogenys	YINDGESVNLFEWMAP l fEKLGYSQPWIQVPTSWVYLtaAVMERLHLALRPICSLPPLLT	9p.0	10p.	
SDR42E2	M. mulatta	YINDGESVNLFEWMAP l fEKLGYSQPWIQVPTSWVYLtaAVMERLHLALRPICCLPPLLT	8p.0	9p.	
SDR42E2	P. anubis	YINDGESVNLFEWMAP l fEKLGYSQPWIQVPTSWVYLtaAVMERLHLALRPICCLPPLLT	8p.0	9p.	
SDR42E2	C. jacchus	YINDGESVNLFEWMAP l fEKLGYSQPRIQVPTSWVYLtaAVMERLHLALRPICNLPLLLT	8p.0	9p.	
SDR42E2	M. murinus	YINDGDSINLFEWIAP l fEKLGYSQPWIQVPTSWIYLtaAVMERLHLALRPICSVPLLLT	8p.0	9p.	
		*****	*****	*****	*****
SDR42E2	H. sapiens	RSe v RSVAVTHTFQIAKARAQLGYAPDKFRRFADAVELYVQSTTRRPRGSTARTLLRLLL	10p.0		
SDR42E2	P. troglodytes	RSe v RSVAVTHTFQIAKARAQLGYAPDKFRRFADAVELYVQSTTRRPRGSTARTLLRLLL	10p.0		
SDR42E2	P. paniscus	RSe v RSVAVTHTFQIAKARAQLGYAPDKFRRFADAVELYVQSTTRRPRGSTARTLLRLLL	11p.0		
SDR42E2	N. leucogenys	RSe v RSVAVTHTFQIAKARAQLGYAPDKFRRFADAVELYVQSTTRRPRGSTARTLLRLLL	11p.0		
SDR42E2	M. mulatta	RSe v RSVAVTHTFQIAKARAQLGYAPDKFRRFADAVELYVQSTTRRPRGSTARTLLRLLL	10p.0		
SDR42E2	P. anubis	RSe v RSVAVTHTFQIAKARAQLGYAPDKFRRFADAVELYVQSTTRRPRGSTARTLLRLLL	10p.0		
SDR42E2	C. jacchus	RSe v CSVAVTHTFQIAKARAQLGYAPDKFSSLADVVERYVQSTSPPRSSTAQTLLRLLL	10p.0		
SDR42E2	M. murinus	RSe v CSVAVTHTFQIAKARAQLGYAPDKFSSFDAVERYMQSSAPRQRGSTTRALLRLLL	10p.0		
		*****	*****	*****	*****

SDR42E2 H. sapiens

SDR42E2	P. troglodytes	LLLLFLGLLLALALALHFLGLIQPLHAAVERL
SDR42E2	P. paniscus	LLLLFLGLLLALALALHFLGLIQPLHAAVERL
SDR42E2	N. leucogenys	LLLLFLGLLLALALALHFLGLQPLHAAVERL
SDR42E2	M. mulatta	LLLLFLGLLLALALALHFLGLQPLHSSVERL
SDR42E2	P. anubis	LLLLFLGLLLALALALHFLGLQPLQASVERL
SDR42E2	C. jacchus	LLLLLFLGLLLALALALHFLGLQPLQAAMKRL
SDR42E2	M. murinus	LL-LLGLLALALALHYLCLQPLRAATERL
		** * ***** * * ** *

Figure S50. Alignment of the primate SDR42E2 proteins variants. For further details see Online Resources 2 Fig. S3.

* symbol marks the position of identical amino acid residues of the aligned SDR protein sequences.

Species	Gene symbol	Gene ID	Chr	Enzyme symbol	Exons n.	Phases formula	% identity	aa n.	Structure consensus	Catalysis Consensus		
<i>Homo sapiens</i>	SDR42E1	93517	16	SDR42E1	2	1	100.00	393	GGSGYFG	YSRTK		
<i>Pan troglodytes</i>		468047	16				98.98					
<i>Pan paniscus</i>		100984124	16				98.73					
<i>Nomascus leucogenys</i>		100588195	2				96.69					
<i>Macaca mulatta</i>		714229	20				96.18					
<i>Papio anubis</i>		101004680	20				95.93					
<i>Callithrix jacchus</i>		100393984	20				91.58	392	GGGGYFG			
<i>Microcebus murinus</i>		105859480	20				87.50	393				
<i>Homo sapiens</i>	SDR42E2	100288072	16	SDR42E2	11	0020200020	100.00	626	GGGGYLG	YSRTK		
<i>Pan troglodytes</i>		100615511	16				97.84	602				
<i>Pan paniscus</i>		100971052	16		12	20020200020	95.50	422				
<i>Nomascus leucogenys</i>		100592297	2				93.84					
<i>Macaca mulatta</i>		106994972	20		11	0020200020	91.21	626				
<i>Papio anubis</i>		101004328	20				90.42	627				
<i>Callithrix jacchus</i>		100895632	12				87.13	614				
<i>Microcebus murinus</i>		105885292	17				80.00	555				

Table S51a. Genetic and molecular data of primate SDR42E family variants. For further details see Online Resources Table S39a.

Enzyme	Species	% identity	Enzyme	Species	% identity
SDR42E1	<i>Homo sapiens</i>	100.00	SDR42E2	<i>Homo sapiens</i>	100.00
	<i>Pan troglodytes</i>	98.98		<i>Pan troglodytes</i>	97.84
	<i>Pan paniscus</i>	98.73		<i>Pan paniscus</i>	95.50
	<i>Nomascus leucogenys</i>	96.69		<i>Nomascus leucogenys</i>	93.84
	<i>Macaca mulatta</i>	96.18		<i>Macaca mulatta</i>	91.21
	<i>Papio anubis</i>	95.93		<i>Papio anubis</i>	90.42
	<i>Callithrix jacchus</i>	91.58		<i>Callithrix jacchus</i>	87.13
	<i>Microcebus murinus</i>	87.50		<i>Microcebus murinus</i>	80.00
SDR42E2	<i>Homo sapiens</i>	47.95	SDR42E1	<i>Homo sapiens</i>	47.95
	<i>Pan troglodytes</i>	48.21		<i>Pan troglodytes</i>	47.95
	<i>Pan paniscus</i>	48.46		<i>Pan paniscus</i>	47.69
	<i>Nomascus leucogenys</i>	48.97		<i>Nomascus leucogenys</i>	47.69
	<i>Macaca mulatta</i>	48.21		<i>Macaca mulatta</i>	47.69
	<i>Papio anubis</i>	47.44		<i>Papio anubis</i>	47.95
	<i>Callithrix jacchus</i>	47.18		<i>Callithrix jacchus</i>	48.07
	<i>Microcebus murinus</i>	48.84		<i>Microcebus murinus</i>	47.04

Table S51b. Relative percent identity of primate SDR42E family protein variants.