

# SDR families

version 2, July 2012

SDR family designation	Family name	Uniprot representative	# mbrs	M	E	B	A
SDR1E	UDP-glucose 4-epimerase	GALE_HUMAN	5305	x	x	x	x
SDR2E	dTDP-D-glucose 4,6-dehydratase	TGDS_HUMAN	4194	x	x	x	x
SDR3E	GDP-mannose 4,6 dehydratase	GMDS_HUMAN	2314	x	x	x	x
SDR4E	GDP-L-fucose synthetase	FCL_HUMAN	1750	x	x	x	x
SDR5C	3-hydroxyacyl-CoA dehydrogenase type II	HCD2_HUMAN	1188	x	x	x	
SDR6E	UDP-glucuronic acid decarboxylase	UXS1_HUMAN	1169	x	x	x	x
SDR7C	NADPH-dependent retinal reductase	RDH14_HUMAN	822	x	x	x	
SDR8C	Peroxisomal multifunctional enzyme	DHB4_HUMAN	1229	x	x	x	
SDR9C	Multisubstrate SDR9C with preference for NAD(H)	DHB2_HUMAN	538	x	x		
SDR10E	Fatty acyl-CoA reductase	FACR1_HUMAN	544	x	x		
SDR11E	3 beta-hydroxysteroid dehydrogenase	3BHS1_HUMAN	254	x	x		
SDR12C	NADP(H)-dependent 17-beta-hydroxysteroid dehydrogenase (SDR12C)	DHB12_HUMAN	401	x	x		
SDR13C	SDR13C with unknown substrate specificity	HSDL2_HUMAN	468	x	x	x	
SDR14E	L-threonine dehydrogenase	TDH_MOUSE	716	x	x	x	x
SDR15C	3-hydroxybutyrate dehydrogenase	BDH2_HUMAN	396	x	x	x	
SDR16C	Multisubstrate NADP(H)-dependent SDR16C	DHB13_HUMAN	389	x	x	x	
SDR17C	Peroxisomal 2,4-dienoyl-CoA reductase	DECR2_HUMAN	343	x	x	x	
SDR18C	Microsomal 2,4-dienoyl-CoA reductase	DECR_HUMAN	364	x	x	x	x
SDR19C	SDR19C with unknown substrate specificity	DHRS1_HUMAN	195	x	x	x	
SDR20C	L-xylulose reductase	DCXR_HUMAN	213	x	x	x	
SDR21C	NADPH-dependent carbonyl reductases 1 and 3	CBR1_HUMAN	172	x	x		
SDR22E	NADH dehydrogenase (Ubiquinone) 1 alpha subcomplex 9	NDUA9_HUMAN	279	x	x		
SDR23E	Methionine adenosyltransferase 2 subunit beta	MAT2B_HUMAN	123	x	x	x	
SDR24C	SDR24C with unknown substrate specificity	DHR11_HUMAN	254	x	x		
SDR25C	SDR25C with unknown substrate specificity	DHRS2_HUMAN	473	x	x	x	
SDR26C	11-beta-hydroxysteroid dehydrogenases 1 and 3	DHI1_HUMAN	111	x	x		
SDR27X	Beta-ketoacyl reductase domain of fatty acid synthase	FAS_HUMAN	176	x	x		
SDR28C	Multisubstrate SDR28C	DHB1_HUMAN	153	x	x		
SDR29C	Peroxisomal trans-2-enoyl-CoA reductase	PECR_HUMAN	213	x	x	x	
SDR30C	NAD(H)-dependent 17-beta-hydroxysteroid dehydrogenase (SDR30C)	DHB8_HUMAN	107	x	x		
SDR31E	Sterol-4-alpha-carboxylate 3-dehydrogenase	NSDHL_HUMAN	119	x	x		
SDR32C	SDR32C with unknown substrate specificity	DRS7B_HUMAN	150	x	x		
SDR33C	Dihydropteridine reductase	DHPR_HUMAN	127	x	x		
SDR34C	SDR34C with unknown substrate specificity	DHRS7_HUMAN	130	x	x	x	
SDR35C	3-ketodihydrosphingosine reductase	FVT1_HUMAN	132	x	x	x	
SDR36C	15-hydroxyprostaglandin dehydrogenase	PGDH_HUMAN	87	x	x		
SDR37C	17-beta-hydroxysteroid dehydrogenase (SDR37C)	DHB7_HUMAN	71	x	x		
SDR38C	Sepiapterin reductase	SPRE_HUMAN	79	x	x		
SDR39U	SDR39U with unknown substrate specificity	CN124_BOVIN	104	x	x		
SDR40C	SDR40C with unknown substrate specificity	DHR12_HUMAN	97	x	x	x	
SDR41C	SDR41C with unknown substrate specificity	WVOX_HUMAN	76	x	x		
SDR42E	SDR42E with unknown substrate specificity	YP022_HUMAN	124	x	x		

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SDR family designation	Family name	Uniprot representative	# mbrs	M	E	B	A
SDR43U	Flavin reductase	BLVRB_HUMAN	82	x	x		
SDR44U	HIV-1 TAT-interactive protein 2	HTAI2_HUMAN	70	x	x		
SDR45C	NADPH-dependent carbonyl reductase	CBR4_HUMAN	53	x	x		
SDR47C	NADH-dependent 17-beta-hydroxysteroid dehydrogenase (SDR47C)	DHB14_HUMAN	58	x	x	x	
SDR48A	SDR48A with unknown function (NmrA-like)	NMRL1_HUMAN	87	x	x		
SDR49C	Gluconate 5-dehydrogenase	Q0CJV8_ASPTN	2652		x	x	x
SDR50E	UDP-glucuronate 4-epimerase 4	GAE4_ARATH	1288		x	x	x
SDR51C	L-xylulose reductase	DCXR_TRIRE	602		x	x	x
SDR52E	Sulfolipid (UDP-sulfoquinovose) biosynthesis protein	SQD1_ARATH	276		x	x	x
SDR53C	Glucose 1-dehydrogenase related protein	Q5KLC5_CRYNE	110		x	x	x
SDR54D	Enoyl-[acyl-carrier-protein] reductase	FABI_ECOLI	2783		x	x	
SDR55E	Capsular polysaccharide biosynthesis protein	Q9K6L1_BACHD	2206		x	x	x
SDR56X	Modular polyketide synthase	ERYA2_SACER	1493			x	
SDR57C	Glucose and ribitol dehydrogenase	GRDH_ORYSJ	2210		x	x	x
SDR58C	NADP-dependent L-serine/L-allo-threonine dehydrogenase ydfG	YDFG_ECOLI	2216		x	x	
SDR59C	3-hydroxybutyrate dehydrogenase	BDHA_RHIME	1067		x	x	
SDR60E	17-beta hydroxysteroid dehydrogenase 13	HLDD_ECOLI	1308		x	x	
SDR61X	Polyketide synthase	ERYA1_SACER	580			x	
SDR62C	Short-chain dehydrogenase/reductase SDR	Q8GJ23_ECOLX	709		x	x	x
SDR63C	Glucose 1-dehydrogenase	YGFF_ECOLI	719		x	x	
SDR64E	4-hydroxybutyrate dehydrogenase	Q8YB07_BRUME	562		x	x	
SDR65C	Tropinone reductase	TRNH1_ARATH	303		x	x	
SDR66C	Short-chain dehydrogenase/reductase SDR	Q2TW48_ASPOR	533		x	x	
SDR67E	Bifunctional polymyxin resistance arnA protein	Q8L9F5_ARATH	799		x	x	
SDR68C	Probable 3-oxoacyl-[acyl-carrier-protein] reductase protein	Q9SVQ9_ARATH	416		x	x	
SDR69C	Acetoin dehydrogenase	O02715_BOVIN	755		x	x	
SDR70C	Toluenesulfonate zinc-independent alcohol dehydrogenase	Q8YD94_BRUME	356		x	x	x
SDR71C	Short-chain dehydrogenase/reductase SDR	Q1BP08_BURCA	292		x	x	
SDR72U	NAD-dependent epimerase/dehydratase	Q28VS2_JANSC	258		x	x	
SDR73C	Protochlorophyllide oxidoreductase	PORA_ARATH	174		x	x	
SDR74C	Short-chain dehydrogenase/reductase SDR	Q2G4M0_NOVAD	333		x	x	
SDR75U	Progesterone 5-beta-reductase	Q60DC5_ORYSJ	373		x	x	
SDR76C	Rhamnolipids biosynthesis 3-oxoacyl-[acyl-carrier-protein] reductase	RHLG_PSEAE	354		x	x	
SDR77E	Dihydroflavonol-4-reductase family protein	DFRA_SYNY3	208		x	x	
SDR78C	Oxidoreductase, short-chain dehydrogenase family protein	Q2SSM1_MYCCT	232		x	x	
SDR79C	Putative short chain dehydrogenase	Q5KM93_CRYNE	248		x	x	
SDR80U	NAD-dependent epimerase/dehydratase	Q2IK93_ANADE	297		x	x	
SDR81U	Putative chaperon-like protein for quinone binding in photosystem II	Q3AI55_SYNSC	126		x	x	
SDR82E	Dihydrokaempferol 4-reductase	Q19391_CAEL	355		x	x	

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SDR83U	MRNA-binding protein	Q8YMU6_ANASP	134		x	x	
SDR84C	Short-chain dehydrogenase/reductase SDR	Q1LFL2_RALME	156		x	x	
SDR85C	Glucose 1-dehydrogenase homolog	Q8P974_XANCP	131			x	x
SDR86C	Short-chain dehydrogenase/reductase SDR	Q1BAB6_MYCSS	240		x	x	
SDR87D	Enoyl-ACP reductase	O04942_ARATH	134		x	x	
SDR88C	Short-chain dehydrogenase/reductase SDR precursor	Q7VD48_PROMA	73		x	x	
SDR89C	Isoepoxydon dehydrogenase	Q9HGE3_PENUR	99		x	x	
SDR90C	Putative 3-oxoacyl-acyl carrier protein reductase	Q13RM4_BURXL	156		x	x	
SDR91C	Probable oxidoreductase protein	Q8KKW7_RHIEC	137		x	x	
SDR92C	Pteridine reductase	Q5ZRL8_LEGPH	143		x	x	
SDR93E	GDP-D-mannose-3',5'-epimerase	GME_ARATH	147		x	x	
SDR94C	2,5-dichloro-2,5-cyclohexadiene-1,4-diol dehydrogenase	Q5LMF4_SILPO	116		x	x	
SDR95E	UDP-galactose 4-epimerase	Q98K10_RHILO	99		x	x	
SDR96E	Cinnamyl alcohol dehydrogenase-like protein	Q1BIL8_BURCA	87		x	x	
SDR97C	Putative short-chain dehydrogenase/reductase	Q92PP4_RHIME	131		x	x	
SDR98U	NmrA family protein	B4S858_PROAE	82		x	x	
SDR99X	MSAS-type polyketide synthase	Q2KT14_9EURO	104		x	x	
SDR100C	Short-chain dehydrogenase/reductase SDR	Q873F6_NEUCR	113		x	x	
SDR101U	ActC family protein	Q4K3Q9_PSEF5	109		x	x	
SDR102C	Oxidoreductase, short chain dehydrogenase/reductase family	Q62C54_BURMA	86		x	x	
SDR104C	Short-chain dehydrogenase/reductase SDR	B2T4Y6_BURPP	74		x	x	
SDR105E	NAD-dependent epimerase/dehydratase	B1UCQ0_SYNP8	81		x	x	x
SDR106E	NAD-dependent epimerase/dehydratase	B1CEU5_RHILT	114		x	x	
SDR107C	Short-chain dehydrogenase/reductase SDR	Q126U8_POLSJ	49		x	x	
SDR108E	Dihydroflavonol-4-reductase	DFRA_ARATH	989		x		
SDR109I	Drosophila alcohol dehydrogenase	ADH_DROME	445		x		
SDR110C	Sex determination protein tasselseed-2	Q0WLS8_ARATH	451		x		
SDR111C	Aflatoxin biosynthesis, Versicolorin reductase	STCU_EMENI	227		x		
SDR112C	Hypothetical protein	O16969_CAEEL	250		x		
SDR113E	NADPH-dependent methylglyoxal reductase GRE2	GRE2_YEAST	427		x		
SDR114C	Menthol dehydrogenase	SDR1_ARATH	209		x		
SDR115E	NADPH-dependent HC-toxin reductase	Q67UQ3_ORYSJ	126		x		
SDR116U	Fatty acid synthase alpha subunit FasA	FAS2_YEAST	217		x		
SDR117E	Male sterility 2-like protein	Q39152_ARATH	132		x		
SDR118C	Hypothetical protein	Q0CZU4_ASPTN	180		x		
SDR119C	11-beta-hydroxysteroid dehydrogenase-like protein	Q9LUF1_ARATH	101		x		
SDR120C	Short-chain dehydrogenase/reductase, putative	Q4WCX6_ASPFU	154		x		
SDR121E	Amino adipate-semialdehyde dehydrogenase	LYS2_YEAST	146		x		
SDR122U	NAD-dependent epimerase/dehydratase	Q16SV9_AEDAE	127		x		
SDR123C	Hypothetical protein	YIV6_YEAST	138		x		
SDR124C	Hypothetical protein	Q5B0R9_EMENI	134		x		

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SDR125C	Short chain dehydrogenase/reductase family protein	Q4WBK3_ASPFU	135		x		
SDR126C	D-arabinitol 2-dehydrogenase	ARDH_CANAL	104		x		
SDR127C	Hypothetical protein	Q7SHE5_NEUCR	102		x		
SDR128C	Oxidoreductase, short chain dehydrogenase/reductase family	YNS1_YEAST	117		x		
SDR129C	3-oxoacyl-(Acyl-carrier-protein) reductase	Q4WT94_ASPFU	77		x		
SDR130C	Short chain dehydrogenase/reductase family	Q4WVL0_ASPFU	93		x		
SDR132C	Putative short-chain type alcohol dehydrogenase	Q8H744_SOLTU	45		x		
SDR133E	C-3 sterol dehydrogenase/C-4 decarboxylase family protein	Q4WZC8_ASPFU	76		x		
SDR134E	DTDP-4-rhamnose reductase	Q2VJ29_ECOLX	2326		x	x	x
SDR135E	Capsular polysaccharide	Q8GNF3_ECOLX	1244		x	x	x
SDR136E	UDP-glucose 4-epimerase homolog	GALE_METJA	1148		x	x	x
SDR137E	CDP-glucose 4,6-dehydratase	RFBG_SALTY	560		x	x	x
SDR138C	Clavaldehyde dehydrogenase	Q9LCV7_STRCL	679		x	x	x
SDR139C	Class II aldolase/adducin	YUXG_BACSU	282			x	
SDR140C	Glucose 1-dehydrogenase (EC 1.1.1.47)	Q8YQI7_ANASP	530		x	x	x
SDR141U	NAD-dependent epimerase/dehydratase	Q2S3S6_SALRD	977		x	x	x
SDR142E	DTDP-glucose 4,6-dehydratase	Q5KV73_GEOKA	280			x	x
SDR143C	Glucose 1-dehydrogenase	Q74FB3_GEOSL	306			x	x
SDR144C	3-oxoacyl-(Acyl-carrier protein) reductase	Q5WL45_BACSK	270			x	x
SDR145E	Putative NDP-glucose dehydrataseepimerase protein	Q92WU4_RHIME	300		x	x	x
SDR146E	UDP-glucose 4-epimerase	Q980W1_SULSO	154			x	x
SDR147C	Short-chain dehydrogenase/reductase SDR precursor	Q0B1I1_BURCM	121			x	x
SDR148E	CDP-tyvelose epimerase	RFBE_SALTI	117			x	x
SDR149C	Short-chain dehydrogenase/reductase SDR	Q8TR63_METAC	115		x	x	x
SDR150E	ADP-L-glycero-D-mannoheptose-6-epimerase	Q25530_HELPY	224			x	x
SDR151C	Short-chain dehydrogenase/reductase SDR	Q4J9F2_SULAC	98		x	x	x
SDR152C	Acetoacetyl-CoA reductase	PHBB_CHRVI	5656		x	x	x
SDR153C	Hypothetical oxidoreductase YbbO	YBBO_ECOLI	961		x	x	
SDR154C	Short-chain dehydrogenase/reductase SDR	YCIK_ECOLI	902		x	x	
SDR155C	Carveol dehydrogenase	LIMC_RHOER	712			x	
SDR156C	D-beta-hydroxybutyrate dehydrogenase	Q62BC0_BURMA	598		x	x	
SDR157E	UDP-galactose 4-epimerase	GALE_VIBCH	369			x	
SDR158C	Short-chain dehydrogenase/reductase SDR	O53302_MYCTU	486			x	
SDR159C	2,3-dihydro-2,3-dihydroxybenzoate dehydrogenase	ENTA_ECOLI	854			x	
SDR160C	3-oxoacyl-acyl carrier protein reductase precursor	Q6N966_RHOPA	288			x	
SDR161X	Beta-ketoacyl synthase	Q10Y09_TRIEI	226			x	
SDR162C	Cis-2,3-dihydrobiphenyl-2,3-diol dehydrogenase	HCAB_ECOLI	419			x	
SDR164C	Short-chain dehydrogenase/reductase SDR	Q1LGI4_RALME	348			x	
SDR165C	Oxidoreductase, short-chain dehydrogenase/reductase family	Q4EH24_LISMO	762			x	

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SDR166C	Putative nodulation protein, 3-oxoacyl-(Acyl carrier protein) reductase	Q1MKU0_RHIL3	259		x	x	
SDR167C	Short-chain dehydrogenase/reductase SDR	Q1BQ12_BURCA	264			x	
SDR169E	NADH-ubiquinone oxidoreductase	Q8YDB9_BRUME	278		x	x	
SDR170C	Cis-diol dehydrogenase	XYLL_PSEPU	250		x	x	
SDR171C	Short-chain dehydrogenase/reductase SDR	Q0B996_BURCM	316			x	
SDR172C	2-deoxy-D-gluconate 3-dehydrogenase	Q9APX4_PSEAE	220		x	x	
SDR173C	3-oxoacyl-(Acyl-carrier-protein) reductase	Q6CYL5_ERWCT	407			x	
SDR174C	Short-chain dehydrogenase/reductase SDR	Q28KC5_JANSC	259		x	x	
SDR175U	Putative nucleotide di-P-sugar epimerase or dehydratase	YBJS_ECOLI	612			x	
SDR176C	D-mannonate oxidoreductase	Q09LX8_BACST	345		x	x	x
SDR178C	3-ketoacyl-(Acyl-carrier-protein) reductase	Q1V958_VIBAL	189			x	
SDR179C	Fatty acyl-CoA reductase	Q6F7B8_ACIAD	359			x	
SDR180E	Cell-cell signaling protein, C-factor	Q9KR32_VIBCH	418		x	x	
SDR181C	Oxidoreductase, short-chain dehydrogenase/reductase family	Q8YGC4_BRUME	216			x	x
SDR182C	3-oxoacyl-(Acyl-carrier-protein) reductase	Q0VNT7_ALCBS	346			x	
SDR184C	FixR protein	FIXR_BRAJA	233			x	
SDR185C	D-beta-hydroxybutyrate dehydrogenase	Q2KUR3_BORA1	153			x	
SDR186C	2,5-dichloro-2,5-cyclohexadiene-1,4-diol dehydrogenase	Q982J8_RHILO	192			x	
SDR187E	TDP-glucose-4,6-dehydratase-related protein	Q9RYT6_DEIRA	259			x	
SDR188C	Short-chain dehydrogenase/reductase SDR	Q5WJ10_BACSK	318		x	x	
SDR189U	Dihydrofolate reductase	FOLM_ECOLI	479			x	
SDR190C	Short-chain dehydrogenase/reductase SDR	Q222J3_RHOFD	232			x	
SDR191C	Oxidoreductase, short-chain dehydrogenase/reductase family	Q6HKA5_BACHK	284			x	
SDR192X	Polyketide synthase	PKSJ_BACSU	322			x	
SDR193C	2-deoxy-D-gluconate 3-dehydrogenase	Q62AB7_BURMA	216		x	x	
SDR194U	3-beta hydroxysteroid dehydrogenase/isomerase	Q39XF9_GEOMG	164		x	x	
SDR195X	Mycocerosic acid synthase	Q8VK52_MYCTU	303			x	
SDR196C	Sorbitol dehydrogenase	DHSO_RHOSH	178			x	
SDR197C	Glucitol (Sorbitol)-6-phosphate dehydrogenase	SRLD_ECOLI	539			x	
SDR198C	3-alpha-(or 20-beta)-hydroxysteroid dehydrogenase	CPNA_COMTE	527		x	x	x
SDR199C	Short-chain dehydrogenase/reductase SDR	Q215V1_RHOPB	197			x	
SDR200E	GDP-6-deoxy-D-lyxo-4-hexulose reductase	Q6E7E6_ECOLX	280		x	x	x
SDR201C	2-hydroxycyclohexanecarboxyl-CoA dehydrogenase	Q2PQY8_9NOCA	214			x	x
SDR202E	GDP-6-deoxy-D-lyxo-4-hexulose reductase	Q2SYX0_BURTA	148		x	x	
SDR203E	NAD-dependent epimerase/dehydratase precursor	Q7NWF7_CHRVO	161		x	x	
SDR204C	Short-chain dehydrogenase/reductase SDR precursor	Q1V8L2_VIBAL	201			x	
SDR205C	Putative 3-oxoacyl-(Acyl-carrier protein)reductase	Q13LW3_BURXL	138		x	x	

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SDR206C	CsgA protein	Q604S7_METCA	106		x	x	
SDR207C	Short-chain dehydrogenase/reductase SDR	Q0B7Y9_BURCM	267			x	
SDR208E	3-beta hydroxysteroid dehydrogenase/ isomerase family protein	Q7UXZ2_RHOBA	106			x	
SDR209C	Short-chain dehydrogenase/reductase SDR precursor	Q477C1_RALEJ	147		x	x	
SDR210C	Short-chain dehydrogenase/reductase SDR	Q1BCK4_MYCSS	188			x	
SDR211C	7-alpha-hydroxysteroid dehydrogenase	Q11W48_CYTH3	134			x	
SDR212C	Short-chain dehydrogenase/reductase SDR precursor	Q2ILA3_ANADE	158			x	x
SDR213C	Short-chain dehydrogenase/reductase SDR	Q46VA2_RALEJ	157			x	
SDR214U	Hypothetical protein	Q92Y00_RHIME	143			x	
SDR215C	C-factor, putative	A6XSK1_VIBCH	139			x	
SDR216C	Short-chain dehydrogenase/reductase SDR	Q46VA5_RALEJ	151		x	x	
SDR217C	Short-chain dehydrogenase/reductase SDR precursor	Q6W1F0_RHISN	167		x	x	
SDR219U	Hypothetical protein	Q3MA37_ANAVT	74			x	
SDR220C	Gluconate 5-dehydrogenase	Q89HQ3_BRAJA	104			x	
SDR221C	Short-chain dehydrogenase/reductase (SDR) superfamily	Q5QYC1_IDILO	82			x	
SDR222C	Oxidoreductase UcpA	UCPA_ECO57	479			x	
SDR223C	Short-chain dehydrogenase/reductase SDR	Q0B7A2_BURCM	172			x	
SDR224C	7-alpha-hydroxysteroid dehydrogenase	HDHA_ECOLI	356			x	
SDR225C	3-oxoacyl-[acyl-carrier protein] reductase	Q81A10_BACCR	298			x	
SDR226C	Short-chain dehydrogenase/reductase SDR	Q0B7A7_BURCM	154			x	
SDR227C	Oxidoreductase, short-chain dehydrogenase/reductase family	Q62GY7_BURMA	97			x	
SDR228C	Short-chain dehydrogenase/reductase SDR	Q1BQ83_BURCA	215		x	x	
SDR229U	Short chain dehydrogenase	Q3KGX5_PSEPF	177			x	
SDR230D	Enoyl-(Acyl-carrier protein) reductase (NADH)	INHA_MYCAV	311			x	
SDR231E	Putative Acyl-CoA synthetase	Q9CCT4_MYCLE	205			x	
SDR232U	NAD-dependent epimerase/dehydratase	Q2JS95_SYNJA	70			x	
SDR233E	UDP-glucose 4-epimerase	Q8YBQ8_BRUME	166		x	x	
SDR234C	D-sorbitol-6-phosphate dehydrogenase	Q1R3R8_ECOUT	421			x	
SDR235C	Ribitol 2-dehydrogenase	RIDH_KLEAE	160			x	
SDR236E	DTDP-4-dehydrorhamnose reductase	Q8L347_VIBCH	107			x	x
SDR237C	Short-chain dehydrogenase/reductase SDR	Q0BBE0_BURCM	93			x	
SDR238C	Short-chain dehydrogenase/reductase SDR	Q1B3U4_MYCSS	202			x	
SDR239C	Putative 3-oxoacyl-[acyl-carrier-protein] reductase	YOHF_ECOLI	433			x	
SDR240C	Putative oxidoreductase	Q1MJG4_RHIL3	157			x	
SDR241C	Oxidoreductase, short chain dehydrogenase/reductase family	B3XE41_ECOLX	416			x	
SDR243C	Oxidoreductase, short-chain dehydrogenase/reductase family	Q0C3P2_HYPNA	156			x	
SDR244C	Short-chain dehydrogenase/reductase SDR	Q1LH34_RALME	172		x	x	
SDR246C	Polyketide reductase	DHKR_STRCM	81			x	

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SDR247C	Short-chain dehydrogenase/reductase SDR	Q1BMA2_BURCA	125			x	
SDR248C	Short-chain dehydrogenase/reductase SDR	B2HIY9_MYCMM	167			x	
SDR250C	Short-chain dehydrogenase/reductase SDR	Q0S7P7_RHOSR	168			x	
SDR251C	Oxidoreductase, short-chain dehydrogenase/reductase family	B1HAZ4_BURPS	81			x	
SDR252C	3-oxoacyl-[acyl-carrier-protein] reductase	Q81IZ8_BACCR	182			x	
SDR253C	Short-chain dehydrogenase/reductase SDR	Q0B7Z1_BURCM	79			x	
SDR254E	NAD dependent epimerase/dehydratase family protein	Q81YX3_BACAN	121		x	x	
SDR255C	Short-chain dehydrogenase/reductase SDR	Q0B5Y4_BURCM	68			x	
SDR256C	Short-chain dehydrogenase/reductase SDR	Q4IW19_AZOVI	94			x	
SDR257C	Short-chain dehydrogenase/reductase SDR	Q1BVR3_BURCA	64			x	
SDR258U	NAD-dependent epimerase/dehydratase	B3KK62_9BACI	142			x	
SDR259C	Short-chain dehydrogenase/reductase SDR	Q1B775_MYCSS	169			x	
SDR260C	Putative 3-oxoacyl-(Acyl-carrier-protein) reductase	O34308_BACSU	155			x	
SDR261C	Short-chain dehydrogenase/reductase SDR	Q0B5E4_BURCM	425		x	x	x
SDR262C	Oxidoreductase, short-chain dehydrogenase/reductase family	Q0B801_BURCM	83			x	
SDR263C	Putative oxidoreductase	Y3791_MYCTU	207			x	
SDR264C	Short-chain dehydrogenase/reductase SDR	O86803_STRCO	238			x	
SDR265C	20-beta-hydroxysteroid dehydrogenase, putative	Q0FI71_9RHOB	53			x	
SDR266C	Short-chain dehydrogenase/reductase SDR	Q130W2_RHOPS	53			x	
SDR267U	NAD-dependent epimerase/dehydratase	Q15QM8_PSEA6	97			x	
SDR268E	UDP-N-acetylglucosamine 4-epimerase	GNE_ECO57	201			x	
SDR269C	Short-chain dehydrogenase/reductase SDR	B2HD48_MYCMM	176			x	
SDR270C	Short-chain dehydrogenase/reductase SDR	Q1BK47_BURCA	64			x	
SDR271C	Short-chain dehydrogenase/reductase SDR	Q4IYR0_AZOVI	132			x	
SDR272C	Short-chain dehydrogenase/reductase SDR	B4S8U1_PROAE	58			x	
SDR274C	7-alpha-hydroxysteroid dehydrogenase	Q9S3U5_BACFR	97			x	
SDR275C	Oxidoreductase, short-chain dehydrogenase/reductase family	YOXD_BACSU	166			x	
SDR277E	NAD-dependent epimerase/dehydratase	Q1B1P1_MYCSS	115			x	
SDR278C	Short-chain dehydrogenase/reductase SDR	Q0B4M9_BURCM	89			x	
SDR279C	Short-chain dehydrogenase/reductase SDR	Q3KCP9_PSEPF	137		x	x	
SDR280C	Short-chain dehydrogenase/reductase SDR	Q0BCN8_BURCM	83		x	x	
SDR281C	2-deoxy-D-gluconate 3-dehydrogenase	Q89M40_BRAJA	47			x	
SDR282U	Short-chain dehydrogenase/reductase SDR	Q1BWW1_BURCA	49			x	
SDR283C	Short-chain dehydrogenase/reductase SDR	Q2S7V4_HAHCH	96			x	
SDR284C	Benzil reductase	Q8RS29_BACSU	119			x	
SDR285C	7-alpha-hydroxysteroid dehydrogenase, putative	Q0FKX9_9RHOB	47			x	
SDR286C	Short-chain dehydrogenase/reductase SDR	Q1B730_MYCSS	120			x	
SDR287C	Short-chain dehydrogenase/reductase SDR	Q4ZYN2_PSEU2	82			x	
SDR288C	7-alpha-hydroxysteroid dehydrogenase	O25658_HELPY	189			x	
SDR289C	Short-chain dehydrogenase/reductase SDR	Q20YQ3_RHOPB	103		x	x	
SDR290U	Short-chain dehydrogenase/reductase SDR	Q28RP2_JANSC	44			x	
SDR291C	Short-chain dehydrogenase/reductase SDR	Q1LI34_RALME	86			x	

## SDR families

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SDR family designation	Family name	Uniprot representative	# mbrs	M	E	B	A
SDR292U	Cell-division inhibitor	Q8F125_LEPIN	79			x	
SDR293C	Short-chain dehydrogenase/reductase SDR	Q0K127_RALEH	64			x	
SDR294C	Short-chain dehydrogenase/reductase SDR	Q12N17_SHEDO	49			x	
SDR295U	NAD dependent epimerase/dehydratase family protein	Q01QT1_SOLUE	84			x	
SDR296C	Short-chain dehydrogenase/reductase SDR	O06172_MYCTU	168			x	
SDR297E	NAD dependent epimerase/dehydratase family protein	Q0AZ20_SYNWW	56			x	
SDR298E	NAD-dependent epimerase/dehydratase family protein	Q1BE92_MYCSS	180			x	
SDR299C	Short-chain dehydrogenase/reductase SDR	Q30SZ9_SULDN	128			x	
SDR300C	Enoyl-(Acyl carrier protein) reductase	Q5WIF4_BACSK	102			x	
SDR301E	NAD-dependent epimerase/dehydratase	Q1BEZ1_MYCSS	99			x	
SDR302U	NAD-dependent epimerase/dehydratase	B1XM95_SYNP2	42			x	
SDR303C	Probable oxidoreductase	Q1VD92_VIBAL	56			x	
SDR304C	Short-chain dehydrogenase/reductase family protein	Q28K28_JANSC	45			x	
SDR305C	Short-chain dehydrogenase/reductase SDR	Q471Z9_RALEJ	46			x	
SDR306C	Short-chain dehydrogenase/reductase SDR	Q4ZSV0_PSEU2	78			x	
SDR307C	Short-chain dehydrogenase/reductase SDR	Q1B806_MYCSS	90			x	
SDR308C	Oxidoreductase, short-chain dehydrogenase/reductase family	Q81PM4_BACAN	132			x	
SDR309E	NAD-dependent epimerase/dehydratase	O69692_MYCTU	81			x	
SDR310E	NAD dependent epimerase/dehydratase family protein	A8A4D7_ECOHS	264			x	
SDR311C	Short-chain dehydrogenase/reductase SDR	Q471Z8_RALEJ	81		x	x	
SDR312E	CDP-tyvelose epimerase	A0ZLV5_NODSP	71		x	x	
SDR313U	NAD dependent epimerase/dehydratase family protein	Q1DEX1_MYXXD	113			x	
SDR314C	Short-chain dehydrogenase/reductase SDR	B2HHF4_MYCMM	114			x	
SDR315C	Short-chain dehydrogenase/reductase SDR	Q1LFC2_RALME	126			x	
SDR316C	Short-chain dehydrogenase/reductase SDR	Q1B2Y4_MYCSS	114			x	
SDR317C	Short-chain dehydrogenase/reductase SDR	Q28TD9_JANSC	52			x	
SDR318C	Short-chain dehydrogenase/reductase (SDR) superfamily	Q7V255_PROMP	25			x	
SDR319E	NAD-dependent epimerase/dehydratase	Q4BYF6_CROWT	47			x	
SDR320C	Short-chain dehydrogenase/reductase SDR	A1UN40_MYCSK	69			x	
SDR321C	Gluconate 5-dehydrogenase	Q5LVV0_SILPO	71		x	x	
SDR322C	Short chain dehydrogenase	Q98H76_RHILO	207		x	x	
SDR323E	NDP-4-ketoreductase	Q939Q3_9ACTO	39		x	x	
SDR324U	Short-chain dehydrogenase/reductase SDR	B2TFN1_BURPP	47		x	x	
SDR325C	3 alpha-hydroxysteroid dehydrogenase/carbonyl reductase	Q9ZFY9_COMTE	57			x	
SDR326C	Short-chain dehydrogenase/reductase SDR	Q1QWP8_CHRSD	51		x	x	
SDR327U	CDP-paratose synthetase (Paratose synthase)	Q7B0W0_YERPS	34			x	
SDR328C	Short-chain dehydrogenase/reductase SDR	Q1B3R7_MYCSS	97			x	
SDR329E	Nucleoside-diphosphate-sugar epimerase	O07609_BACSU	69			x	



# SDR families

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SDR family designation	Family name	Uniprot representative	# mbrs	M	E	B	A
SDR330C	Oxidoreductase, short-chain dehydrogenase/reductase family protein	Q5LP01_SILPO	32			x	
SDR331C	Short-chain dehydrogenase/reductase SDR	Q1BFA2_MYCSS	50			x	
SDR332C	Short-chain dehydrogenase/reductase SDR	Q1B349_MYCSS	101			x	
SDR333C	Short-chain dehydrogenase/reductase SDR	Q1B353_MYCSS	101			x	
SDR334U	NAD-dependent epimerase/dehydratase	A5IUT9_STAA9	232			x	
SDR335C	Oxidoreductase, short-chain dehydrogenase/reductase family	Q7DAI4_MYCTU	700		x	x	x
SDR336C	SDR336C with unknown substrate specificity	A1CD13_ASPL	67		x		
SDR337C	SDR337C with unknown substrate specificity	Q6FAK1_ACIAD	152			x	
SDR338C	SDR338C with unknown substrate specificity	A5UP08_METS3	142			x	x
SDR339U	SDR339U with unknown substrate specificity	C7PI42_CHIPD	38			x	
SDR340U	SDR340U with unknown substrate specificity	A3PBD1_PROM0	23			x	
SDR341C	SDR341C with unknown substrate specificity	C0NKCO_AJECG	76		x		
SDR342U	SDR342U with unknown substrate specificity	A9CH77_AGRT5	122			x	
SDR343E	SDR343E with unknown substrate specificity	B7HXA9_BACC7	102			x	
SDR344C	SDR344C with unknown substrate specificity	A3PC09_PROM0	24			x	
SDR345C	SDR345C with unknown substrate specificity	C2M8S8_CAPGI	52			x	
SDR346C	SDR346C with unknown substrate specificity	C7JDS8_ACEP3	310			x	
SDR347C	SDR347C with unknown substrate specificity	Q0TRZ0_CLOP1	46			x	
SDR348C	SDR348C with unknown substrate specificity	C4WY93_ACYPI	71	x	x		
SDR349C	SDR349C with unknown substrate specificity	C7Q6V2_CATAD	65			x	
SDR350U	SDR350U with unknown substrate specificity	Q54QA2_DICDI	200		x	x	
SDR351C	SDR351C with unknown substrate specificity	C5A8T5_BURGB	41			x	
SDR352C	SDR352C with unknown substrate specificity	Q8LA87_ARATH	99		x	x	
SDR353C	SDR353C with unknown substrate specificity	D4UWW9_BACVU	481			x	
SDR354C	SDR354C with unknown substrate specificity	Q6F849_ACIAD	102			x	
SDR355C	SDR355C with unknown substrate specificity	A7Z1Q0_BACA2	118			x	
SDR356E	SDR356E with unknown substrate specificity	Q8PJG3_XANAC	43			x	
SDR357C	SDR357C with unknown substrate specificity	B0C7N6_ACAM1	34			x	
SDR358U	SDR358U with unknown substrate specificity	Y2766_ARATH	42		x	x	
SDR359C	SDR359C with unknown substrate specificity	Q16FA9_AEDAE	24		x		
SDR360U	SDR360U with unknown substrate specificity	B9YWP7_ANAAZ	44			x	
SDR361C	SDR361C with unknown substrate specificity	C7P275_HALMD	321		x	x	x
SDR362C	SDR362C with unknown substrate specificity	C6W8A9_ACTMD	192			x	
SDR363U	SDR363U with unknown substrate specificity	A1R347_ARTAT	47			x	
SDR364U	SDR364U with unknown substrate specificity	A1S5S1_SHEAM	28			x	
SDR365C	SDR365C with unknown substrate specificity	Q2H5L3_CHAGB	186		x	x	
SDR366C	SDR366C with unknown substrate specificity	C0NGF7_AJECG	186		x		
SDR367E	SDR367E with unknown specificity	B9S3M4_RICCO	68		x		
SDR368C	SDR368C with unknown specificity	B9H578_POPTR	48		x		
SDR369C	Forever young oxidoreductase	A2X042_ORYSI	43		x		
SDR370U	SDR370U with unknown specificity	B9RDM8_RICCO	30		x		
SDR371E	SDR371E with unknown specificity	B9GNX2_POPTR	32		x		
SDR372X	SDR372X with unknown specificity	A1CMV8_ASPL	146		x		
SDR373X	SDR373X with unknown specificity	A2Q977_ASPNC	111		x		
SDR374X	SDR374X with unknown specificity	A1CPQ3_ASPL	119		x		

# SDR families

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SDR family designation	Family name	Uniprot representative	# mbrs	M	E	B	A
SDR375U	SDR375U with unknown specificity	A1CPA1_ASPCL	91		x		
SDR376U	SDR376U with unknown specificity	B8MX05_ASPFN	83		x		
SDR377U	SDR377U with unknown specificity	B6HEB4_PENCW	75		x		
SDR378U	SDR378U with unknown specificity	A2R3T6_ASPNC	67		x		
SDR379U	SDR379U with unknown specificity	A2R520_ASPNC	67		x		
SDR380C	SDR380C with unknown specificity	B7G2G4_PHATR	66		x		
SDR381C	SDR381C with unknown specificity	A2QZJ2_ASPNC	57		x		
SDR382U	SDR382U with unknown specificity	B8MAW2_TALSN	59		x		
SDR383U	SDR383U with unknown specificity	A7TKM8_VANPO	60		x		
SDR384C	SDR384C with unknown specificity	B8LU00_TALSN	49		x		
SDR385C	SDR385C with unknown specificity	B6QGK3_PENMQ	58		x		
SDR386C	SDR386C with unknown specificity	B6QR87_PENMQ	42		x		
SDR387U	SDR387U with unknown specificity	B2AV24_PODAN	58		x		
SDR388U	SDR388U with unknown specificity	A1CR18_ASPCL	46		x		
SDR389X	SDR389X with unknown specificity	B6QPU0_PENMQ	51		x		
SDR390U	SDR390U with unknown specificity	A2QIW8_ASPNC	33		x		
SDR391C	SDR391C with unknown specificity	B6HLR0_PENCW	45		x		
SDR392E	SDR392E with unknown specificity	D0MKD8_RHOM4	69		x	x	
SDR393E	SDR393E with unknown specificity	A3J3V2_9FLAO	72		x	x	
SDR394U	SDR394U with unknown specificity	A9EDD2_9RHOB	44		x	x	
SDR395C	SDR395C with unknown specificity	A1WE53_VEREI	52		x	x	
SDR396C	SDR396C with unknown specificity	B8NQQ1_ASPFN	39		x	x	
SDR397E	SDR397E with unknown specificity	B9BAZ3_9BURK	42		x	x	
SDR398E	SDR398E with unknown specificity	C6W226_DYAFD	31			x	x
SDR399D	SDR399D with unknown specificity	A3HXA2_9BACT	187			x	
SDR400U	SDR400U with unknown specificity	A9EAB1_9FLAO	177			x	
SDR401U	SDR401U with unknown specificity	B9DIE7_STACT	217			x	
SDR402U	SDR402U with unknown specificity	D0L8J2_GORB4	146			x	
SDR403U	SDR403U with unknown specificity	A3KSC2_PSEAE	145			x	
SDR404U	SDR404U with unknown specificity	B9CS52_STACP	218			x	
SDR405C	SDR405C with unknown specificity	B9CUT3_STACP	219			x	
SDR406C	SDR406C with unknown specificity	B9CPP1_STACP	219			x	
SDR407U	SDR407U with unknown specificity	B9CT81_STACP	207			x	
SDR408U	SDR408U with unknown specificity	A0ZCD9_NODSP	98			x	
SDR409E	SDR409E with unknown specificity	D1W6F2_9BACT	115			x	
SDR410C	SDR410C with unknown specificity	A3IQG1_9CHRO	121			x	
SDR411U	SDR411U with unknown specificity	A1A3K6_BIFAA	131			x	
SDR412U	SDR412U with unknown specificity	A5ZLU7_9BACE	95			x	
SDR413U	SDR413U with unknown specificity	C7Q638_CATAD	139			x	
SDR414X	SDR414X with unknown specificity	A1WKM4_VEREI	146			x	
SDR415X	SDR415X with unknown specificity	A9IM21_BORPD	88			x	
SDR416E	SDR416E with unknown specificity	C7G9G4_9FIRM	114			x	
SDR417C	SDR417C with unknown specificity	A1TFL0_MYCVP	81			x	
SDR418U	SDR418U with unknown specificity	B5UXI9_BACCE	64			x	
SDR419C	SDR419C with unknown specificity	B8IRB8_METNO	69			x	
SDR420X	SDR420X with unknown specificity	A1UGW3_MYCSK	66			x	
SDR421E	SDR421E with unknown specificity	A1TE10_MYCVP	74			x	

## SDR families

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SDR family designation	Family name	Uniprot representative	# mbrs	M	E	B	A
SDR422C	SDR422C with unknown specificity	B5SCU0_RALSO	75			x	
SDR423U	SDR423U with unknown specificity	A1UGS9_MYCSK	72			x	
SDR424E	SDR424E with unknown specificity	A3DHJ3_CLOTH	58			x	x
SDR425C	SDR425C with unknown specificity	B7AD33_9BACE	50			x	
SDR426C	SDR426C with unknown specificity	A4A2X1_9PLAN	89			x	
SDR428C	SDR428C with unknown specificity	A4FN02_SACEN	48			x	
SDR429C	SDR429C with unknown specificity	D1XUW2_9ACTO	45			x	
SDR430C	SDR430C with unknown specificity	A5W3N1_PSEP1	47			x	
SDR431C	SDR431C with unknown specificity	B7J8Z4_ACIF2	49			x	
SDR432C	SDR432C with unknown specificity	D6Y792_THEBD	74			x	
SDR433C	SDR433C with unknown specificity	A0JTU1_ARTS2	76			x	
SDR434U	SDR434U with unknown specificity	B5H1E1_STRCL	45			x	
SDR435C	SDR435C with unknown specificity	A1T905_MYCVP	59			x	
SDR436U	SDR436U with unknown specificity	A2WC57_9BURK	50			x	
SDR437C	SDR437C with unknown specificity	D3C443_9ACTO	50			x	
SDR438E	SDR438E with unknown specificity	A3CRA1_STRSV	75			x	
SDR439U	SDR439U with unknown specificity	A8CAA9_9ACTO	33			x	
SDR440C	SDR440C with unknown specificity	B5ZSH8_RHILW	47			x	
SDR441C	SDR441C with unknown specificity	B9BKT7_9BURK	49			x	
SDR442C	SDR442C with unknown specificity	D1XRT1_9ACTO	37			x	
SDR443C	SDR443C with unknown specificity	Q08TE9_STIAU	38			x	
SDR445E	SDR445E with unknown specificity	B7JZ90_CYAP8	35			x	x
SDR446C	SDR446C with unknown specificity	B6FZK1_9CLOT	48			x	
SDR447U	SDR447U with unknown specificity	D7W3H2_9FLAO	50			x	
SDR448U	SDR448U with unknown specificity	A0JWT2_ARTS2	31			x	
SDR449C	SDR449C with unknown specificity	A1SHF7_NOCSJ	34			x	
SDR450U	SDR450U with unknown specificity	B5WAM4_9BURK	39			x	
SDR451C	SDR451C with unknown specificity	B7RGL1_9RHOB	38			x	
SDR452C	SDR452C with unknown specificity	C0BG48_9BACT	45			x	
SDR453E	SDR453E with unknown specificity	B5YGB5_THEYD	46			x	
SDR454C	SDR454C with unknown specificity	B6A566_RHILW	35			x	
SDR455C	SDR455C with unknown specificity	B8H1X0_CAUCN	34			x	
SDR456E	SDR456E with unknown specificity	B9QZV5_9RHOB	33			x	
SDR457C	SDR457C with unknown specificity	B9XSH6_9BACT	39			x	
SDR458C	SDR458C with unknown specificity	A2WFM7_9BURK	36			x	
SDR459C	SDR459 with unknown specificity	B8H1U3_CAUCN	30			x	
SDR460A	Isoflavone reductase	IFRH_ARATH	332		x		
SDR461U	SDR461U with unknown specificity	F9X044_MYCGM	95		x		
SDR462C	SDR462C with unknown specificity	B2B0U3_PODAN	67		x		
SDR463U	Putative nonribosomal peptide synthase	Q0CCA6_ASPTN	60		x	x	
SDR464U	SDR464U with unknown specificity	A1CNG6_ASPL	56		x		
SDR465X	Putative polyketide synthase	A2Q7L3_ASPL	45		x		
SDR466C	SDR466C with unknown specificity	Q5BAG1_EMENI	45		x		
SDR467C	SDR467C with unknown specificity	Q0CS96_ASPTN	44		x		
SDR468C	Putative AdhA	C1GFM2_PARBD	41		x		
SDR469C	SDR469C with unknown specificity	Q2HC96_CHAGB	41		x		
SDR470C	SDR470C with unknown specificity	Q5BBP1_EMENI	37		x		

# SDR families

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SDR family designation	Family name	Uniprot representative	# mbrs	M	E	B	A
SDR471U	SDR471U with unknown specificity	Q5AYH1_EMENI	34		x		
SDR472C	SDR472C with unknown specificity	Q5B9Q9_EMENI	34		x		
SDR473U	SDR473U with unknown specificity	Q67N83_SYMTH	133		x	x	
SDR474C	SDR474C with unknown specificity	B0NAJ4_EUBSP	53			x	
SDR475E	SDR475E with unknown specificity	Q9F749_BACFG	58			x	
SDR476U	Epimerase with unknown specificity	Q2KM68_STRIN	47			x	
SDR477U	Putative thioester reductase	Q4C9E9_CROWT	42			x	
SDR478C	SDR478C with unknown specificity	A9NHL2_ACHLI	31			x	
SDR479E	Epimerase with unknown specificity	C3JQR1_RHOER	27			x	
SDR46C	deleted, joined SDR7C						
SDR103U	deleted, joined SDR75U						
SDR131C	deleted, joined SDR62C						
SDR163C	deleted, joined SDR25C						
SDR168U	deleted, joined SDR175U						
SDR177U	deleted, probably false positive						
SDR183C	deleted, joined SDR8C						
SDR218C	deleted, joined SDR152C						
SDR242C	deleted, joined SDR198C						
SDR245C	deleted, joined SDR152C						
SDR249C	deleted, joined SDR244C						
SDR273C	deleted, joined SDR152C						
SDR276E	deleted, joined SDR145E						
SDR427U	deleted, joined SDR342U						
SDR444C	deleted, joined SDR322C						