

logo



tr	AOA142EGH9	AOA142EGH9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA2Z6C8F6	AOA2Z6C8F6	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA PE 4 SV 1	.....	0
sp	Q8GTB6	THCAS	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 1 SV 1	MNCSAFSFWF	10
tr	AOAOE3TIK8	AOAOE3TIK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	MNCSAFSFWF	10
tr	AOAOE3TIL1	AOAOE3TIL1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	MNCSAFSFWF	10
tr	AOA142EGH4	AOA142EGH4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA142EGK4	AOA142EGK4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA142EGH6	AOA142EGH6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOAOE3XJ68	AOAOE3XJ68	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA1 PE 2 SV 1	MNCSAFSFWF	10
tr	AOA142EGI7	AOA142EGI7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA142EGN5	AOA142EGN5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA142EGI9	AOA142EGI9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA142EGL7	AOA142EGL7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA142EGL0	AOA142EGL0	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA142EGI2	AOA142EGI2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA142EGI4	AOA142EGI4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA142EGL2	AOA142EGL2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA142EGM0	AOA142EGM0	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	MNCSAFSFWF	10
tr	AOA142EGH2	AOA142EGH2	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	MNCSAFSFWF	10
tr	AOAOH3UZU9	AOAOH3UZU9	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	MNCSAFSFWF	10
tr	AOAOH3UZP6	AOAOH3UZP6	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA142EGJ1	AOA142EGJ1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA142EGL9	AOA142EGL9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA142EGL4	AOA142EGL4	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	MNCSAFSFWF	10
tr	AOA142EGH8	AOA142EGH8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
sp	Q33DQ2	THCAI	CANSA	Inactive tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA142EGK3	AOA142EGK3	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA142EGM5	AOA142EGM5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA142EGJ7	AOA142EGJ7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	Q33DQ0	Q33DQ0	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	Q33DP7	Q33DP7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	Q33DP2	Q33DP2	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	Q33DP3	Q33DP3	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	Q33DP4	Q33DP4	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA142EGJ6	AOA142EGJ6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA142EGM4	AOA142EGM4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA142EGI0	AOA142EGI0	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOA142EGK8	AOA142EGK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	MNCSAFSFWF	10
tr	AOAOH3UZT7	AOAOH3UZT7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA4 PE 4 SV 1	.....	0
tr	AOAOH3VOW7	AOAOH3VOW7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA5 PE 4 SV 1	.....	0
consensus						*****	



tr	AOA142EGH9	AOA142EGH9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA2Z6C8F6	AOA2Z6C8F6	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA PE 4 SV 1	.....	0
sp	Q8GTB6	THCAS	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 1 SV 1	VCKIIFFFLS	20
tr	AOAOE3TIK8	AOAOE3TIK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	VCKIIFFFLS	20
tr	AOAOE3TIL1	AOAOE3TIL1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	VCKIIFFFLS	20
tr	AOA142EGH4	AOA142EGH4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA142EGK4	AOA142EGK4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA142EGH6	AOA142EGH6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOAOE3XJ68	AOAOE3XJ68	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA1 PE 2 SV 1	VCKIIFFFLS	20
tr	AOA142EGI7	AOA142EGI7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA142EGN5	AOA142EGN5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA142EGI9	AOA142EGI9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA142EGL7	AOA142EGL7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA142EGL0	AOA142EGL0	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA142EGI2	AOA142EGI2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA142EGI4	AOA142EGI4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA142EGL2	AOA142EGL2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA142EGM0	AOA142EGM0	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	VCKIIFFFLS	20
tr	AOA142EGH2	AOA142EGH2	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	VCKIIFFFLS	20
tr	AOAOH3UZU9	AOAOH3UZU9	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	VCKIIFFFLS	20
tr	AOAOH3UZP6	AOAOH3UZP6	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA142EGJ1	AOA142EGJ1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA142EGL9	AOA142EGL9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA142EGL4	AOA142EGL4	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	VCKIIFFFLS	20
tr	AOA142EGH8	AOA142EGH8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
sp	Q33DQ2	THCAI	CANSA	Inactive tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA142EGK3	AOA142EGK3	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA142EGM5	AOA142EGM5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA142EGJ7	AOA142EGJ7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	Q33DQ0	Q33DQ0	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	Q33DP7	Q33DP7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	Q33DP2	Q33DP2	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	Q33DP3	Q33DP3	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	Q33DP4	Q33DP4	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA142EGJ6	AOA142EGJ6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA142EGM4	AOA142EGM4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA142EGI0	AOA142EGI0	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOA142EGK8	AOA142EGK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VCKIIFFFLS	20
tr	AOAOH3UZT7	AOAOH3UZT7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA4 PE 4 SV 1	.....	0
tr	AOAOH3VOW7	AOAOH3VOW7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA5 PE 4 SV 1	.....	0
consensus						*****	

F|N|Q|S|A|N|F

tr	AOA142EGH9	AOA142EGH9	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FHIQISIANP	30
tr	AOA2Z6C8F6	AOA2Z6C8F6	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	GN	THCA	PE 4	SV 1	0
sp	Q8GTB6	THCAS	CANSA	Tetrahydrocannabinolic acid synthase	OS	Cannabis sativa	OX	3483	PE 1	SV 1		FHIQISIANP	30
tr	AOAOE3TIK8	AOAOE3TIK8	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 2	SV 1		FHIQISIANP	30
tr	AOAOE3TIL1	AOAOE3TIL1	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 2	SV 1		FHIQISIANP	30
tr	AOA142EGH4	AOA142EGH4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FHIQISIANP	30
tr	AOA142EGK4	AOA142EGK4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FHIQISIANP	30
tr	AOA142EGH6	AOA142EGH6	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FHIQISIANP	30
tr	AOAOE3XJ68	AOAOE3XJ68	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	GN	THCA1	PE 2	SV 1	30
tr	AOA142EGI7	AOA142EGI7	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FHIQISIANP	30
tr	AOA142EGN5	AOA142EGN5	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FHIQISIANP	30
tr	AOA142EGI9	AOA142EGI9	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	AOA142EGL7	AOA142EGL7	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	AOA142EGL0	AOA142EGL0	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	AOA142EGI2	AOA142EGI2	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	AOA142EGI4	AOA142EGI4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	AOA142EGL2	AOA142EGL2	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	AOA142EGM0	AOA142EGM0	CANSA	Truncated THCA synthase	OS	Cannabis sativa	OX	3483	PE 4	SV 1		FNIQISIANP	30
tr	AOA142EGH2	AOA142EGH2	CANSA	Truncated THCA synthase	OS	Cannabis sativa	OX	3483	PE 4	SV 1		FNIQISIANP	30
tr	AOAOH3UZU9	AOAOH3UZU9	CANSA	Tetrahydrocannabinolic acid synthase	OS	Cannabis sativa	OX	3483	GN	THCA2	PE 3	SV 1	30
tr	AOAOH3UZP6	AOAOH3UZP6	CANSA	Tetrahydrocannabinolic acid synthase	OS	Cannabis sativa	OX	3483	GN	THCA2	PE 3	SV 1	30
tr	AOA142EGJ1	AOA142EGJ1	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	AOA142EGL9	AOA142EGL9	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	AOA142EGL4	AOA142EGL4	CANSA	Truncated THCA synthase	OS	Cannabis sativa	OX	3483	PE 4	SV 1		FNIQISIANP	30
tr	AOA142EGH8	AOA142EGH8	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
sp	Q33DQ2	THCAI	CANSA	Inactive tetrahydrocannabinolic acid synthase	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	AOA142EGK3	AOA142EGK3	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	AOA142EGM5	AOA142EGM5	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	AOA142EGJ7	AOA142EGJ7	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	Q33DQ0	Q33DQ0	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	Q33DP7	Q33DP7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	Q33DP2	Q33DP2	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	Q33DP3	Q33DP3	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	Q33DP4	Q33DP4	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	AOA142EGJ6	AOA142EGJ6	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	AOA142EGM4	AOA142EGM4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	AOA142EGI0	AOA142EGI0	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	AOA142EGK8	AOA142EGK8	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FNIQISIANP	30
tr	AOAOH3UZT7	AOAOH3UZT7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	GN	THCA4	PE 4	SV 1	0
tr	AOAOH3VOW7	AOAOH3VOW7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	GN	THCA5	PE 4	SV 1	0
consensus													

logo



tr	AOA142EGH9	AOA142EGH9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	RENFLKCFSK	40
tr	AOA2Z6C8F6	AOA2Z6C8F6	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA PE 4 SV 1	.....	0
sp	Q8GTB6	THCAS	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 1 SV 1	RENFLKCFSK	40
tr	AOAOE3TIK8	AOAOE3TIK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	RENFLKCFSK	40
tr	AOAOE3TIL1	AOAOE3TIL1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	RENFLKCFSK	40
tr	AOA142EGH4	AOA142EGH4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	RENFLKCFSK	40
tr	AOA142EGK4	AOA142EGK4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	RENFLKCFSK	40
tr	AOA142EGH6	AOA142EGH6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	RENFLKCFSK	40
tr	AOAOE3XJ68	AOAOE3XJ68	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA1 PE 2 SV 1	RENFLKCFSK	40
tr	AOA142EGI7	AOA142EGI7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	RENFLKCFSK	40
tr	AOA142EGN5	AOA142EGN5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	RENFLKCFSK	40
tr	AOA142EGI9	AOA142EGI9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	AOA142EGL7	AOA142EGL7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	AOA142EGL0	AOA142EGL0	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	AOA142EGI2	AOA142EGI2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	AOA142EGI4	AOA142EGI4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	AOA142EGL2	AOA142EGL2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	AOA142EGM0	AOA142EGM0	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	QENFLKCFSE	40
tr	AOA142EGH2	AOA142EGH2	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	QENFLKCFSE	40
tr	AOAOH3UZU9	AOAOH3UZU9	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	QENFLKCFSE	40
tr	AOAOH3UZP6	AOAOH3UZP6	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	QENFLKCFSE	40
tr	AOA142EGJ1	AOA142EGJ1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	AOA142EGL9	AOA142EGL9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	AOA142EGL4	AOA142EGL4	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	QENFLKCFSE	40
tr	AOA142EGH8	AOA142EGH8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
sp	Q33DQ2	THCAI	CANSA	Inactive tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	AOA142EGK3	AOA142EGK3	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	AOA142EGM5	AOA142EGM5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	AOA142EGJ7	AOA142EGJ7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	Q33DQ0	Q33DQ0	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	Q33DP7	Q33DP7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	Q33DP2	Q33DP2	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	Q33DP3	Q33DP3	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	Q33DP4	Q33DP4	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	AOA142EGJ6	AOA142EGJ6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	AOA142EGM4	AOA142EGM4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	AOA142EGIO	AOA142EGIO	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	AOA142EGK8	AOA142EGK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	QENFLKCFSE	40
tr	AOAOH3UZT7	AOAOH3UZT7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA4 PE 4 SV 1	.....	0
tr	AOAOH3VOW7	AOAOH3VOW7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA5 PE 4 SV 1	.....	0
consensus						*****	

tr	AOA142EGH9	AOA142EGH9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	HIPNNVANPK	50
tr	AOA2Z6C8F6	AOA2Z6C8F6	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA PE 4 SV 1	.....	0
sp	Q8GTB6	THCAS	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 1 SV 1	HIPNNVANPK	50
tr	AOAOE3TIK8	AOAOE3TIK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	HIPNNVANPK	50
tr	AOAOE3TIL1	AOAOE3TIL1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	HIPNNVANPK	50
tr	AOA142EGH4	AOA142EGH4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	HIPNNVANPK	50
tr	AOA142EGK4	AOA142EGK4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	HIPNNVANPK	50
tr	AOA142EGH6	AOA142EGH6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	HIPNNVANPK	50
tr	AOAOE3XJ68	AOAOE3XJ68	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA1 PE 2 SV 1	HIPNNVANPK	50
tr	AOA142EGI7	AOA142EGI7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	HIPNNVANPK	50
tr	AOA142EGN5	AOA142EGN5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	HIPNNVANPK	50
tr	AOA142EGI9	AOA142EGI9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	AOA142EGL7	AOA142EGL7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	AOA142EGL0	AOA142EGL0	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	AOA142EGI2	AOA142EGI2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	AOA142EGI4	AOA142EGI4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	AOA142EGL2	AOA142EGL2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	AOA142EGM0	AOA142EGM0	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	YIPNNPANPK	50
tr	AOA142EGH2	AOA142EGH2	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	YIPNNPANPK	50
tr	AOAOH3UZU9	AOAOH3UZU9	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	YIPNNPANPK	50
tr	AOAOH3UZP6	AOAOH3UZP6	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	YIPNNPANPK	50
tr	AOA142EGJ1	AOA142EGJ1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	AOA142EGL9	AOA142EGL9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	AOA142EGL4	AOA142EGL4	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	YIPNNPANPK	50
tr	AOA142EGH8	AOA142EGH8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
sp	Q33DQ2	THCAI	CANSA	Inactive tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	AOA142EGK3	AOA142EGK3	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	AOA142EGM5	AOA142EGM5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	AOA142EGJ7	AOA142EGJ7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	Q33DQ0	Q33DQ0	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	Q33DP7	Q33DP7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	Q33DP2	Q33DP2	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	Q33DP3	Q33DP3	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	Q33DP4	Q33DP4	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	AOA142EGJ6	AOA142EGJ6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	AOA142EGM4	AOA142EGM4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	AOA142EGI0	AOA142EGI0	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	AOA142EGK8	AOA142EGK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	YIPNNPANPK	50
tr	AOAOH3UZT7	AOAOH3UZT7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA4 PE 4 SV 1	.....	0
tr	AOAOH3VOW7	AOAOH3VOW7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA5 PE 4 SV 1	0
consensus							*****

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tr	AOA142EGH9	AOA142EGH9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	LVYTTQHDQLY	60
tr	AOA2Z6C8F6	AOA2Z6C8F6	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA PE 4 SV 1	.....	0
sp	Q8GTB6	THCAS	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 1 SV 1	LVYTTQHDQLY	60
tr	AOAOE3TIK8	AOAOE3TIK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	LVYTTQHDQLY	60
tr	AOAOE3TIL1	AOAOE3TIL1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	LVYTTQHDQLY	60
tr	AOA142EGH4	AOA142EGH4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	LVYTTQHDQLY	60
tr	AOA142EGK4	AOA142EGK4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	LVYTTQHDQLY	60
tr	AOA142EGH6	AOA142EGH6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	LVYTTQHDQLY	60
tr	AOAOE3XJ68	AOAOE3XJ68	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA1 PE 2 SV 1	LVYTTQHDQLY	60
tr	AOA142EGI7	AOA142EGI7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	LVYTTQHDQLY	60
tr	AOA142EGN5	AOA142EGN5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	LVYTTQHDQLY	60
tr	AOA142EGI9	AOA142EGI9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	AOA142EGL7	AOA142EGL7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	AOA142EGL0	AOA142EGL0	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	AOA142EGI2	AOA142EGI2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	AOA142EGI4	AOA142EGI4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	AOA142EGL2	AOA142EGL2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	AOA142EGM0	AOA142EGM0	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	FIYTTQHDQLY	60
tr	AOA142EGH2	AOA142EGH2	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	FIYTTQHDQLY	60
tr	AOAOH3UZU9	AOAOH3UZU9	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	FIYTTQHDQLY	60
tr	AOAOH3UZP6	AOAOH3UZP6	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	FIYTTQHDQLY	60
tr	AOA142EGJ1	AOA142EGJ1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	AOA142EGL9	AOA142EGL9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	AOA142EGL4	AOA142EGL4	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	FIYTTQHDQLY	60
tr	AOA142EGH8	AOA142EGH8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
sp	Q33DQ2	THCAI	CANSA	Inactive tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	AOA142EGK3	AOA142EGK3	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	AOA142EGM5	AOA142EGM5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	AOA142EGJ7	AOA142EGJ7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	Q33DQ0	Q33DQ0	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	Q33DP7	Q33DP7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	Q33DP2	Q33DP2	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	Q33DP3	Q33DP3	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	Q33DP4	Q33DP4	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	AOA142EGJ6	AOA142EGJ6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	AOA142EGM4	AOA142EGM4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	AOA142EGI0	AOA142EGI0	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	AOA142EGK8	AOA142EGK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	FIYTTQHDQLY	60
tr	AOAOH3UZT7	AOAOH3UZT7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA4 PE 4 SV 1	.....	0
tr	AOAOH3VOW7	AOAOH3VOW7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA5 PE 4 SV 1	.....	0
consensus						*****	

MSYLNST|QN

[illegible]

L R F T S D T T P Y

[illegible]

PLVIVTPSN

[illegible]

SH|QA_♀|LCS[illegible]

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KKVGLQIRTR	22
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* * * * *	

SGGHDAEGLS

SGGHDAEGMS	120
SGGHDAEGMS	32
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SGGHDAEGMS	120
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SGGHDAEGLS	120
SGGHDAEGLS	120
SGGHDAEGLS	120
SGGHDAEGLS	120
SGGHDAEGLS	30
*****	0

YLSQVPFAIV

[illegible]

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tr	AOA142EGH9	AOA142EGH9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHSIKI	140
tr	AOA2Z6C8F6	AOA2Z6C8F6	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA PE 4 SV 1	DLRNMHSIKI	52
sp	Q8GTB6	THCAS	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 1 SV 1	DLRNMHSIKI	140
tr	AOAOE3TIK8	AOAOE3TIK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	DLRNMHSIKI	140
tr	AOAOE3TIL1	AOAOE3TIL1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	DLRNMHSIKI	140
tr	AOA142EGH4	AOA142EGH4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHSIKI	140
tr	AOA142EGK4	AOA142EGK4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHSIKI	140
tr	AOA142EGH6	AOA142EGH6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHSIKI	140
tr	AOAOE3XJ68	AOAOE3XJ68	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA1 PE 2 SV 1	DLRNMHSIKI	140
tr	AOA142EGI7	AOA142EGI7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHSIKI	140
tr	AOA142EGN5	AOA142EGN5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHSIKI	140
tr	AOA142EGI9	AOA142EGI9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTVKV	140
tr	AOA142EGL7	AOA142EGL7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTVKV	140
tr	AOA142EGL0	AOA142EGL0	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTVKV	140
tr	AOA142EGI2	AOA142EGI2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTVKV	140
tr	AOA142EGI4	AOA142EGI4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTVKV	140
tr	AOA142EGL2	AOA142EGL2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTVKV	140
tr	AOA142EGM0	AOA142EGM0	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	DLRNMHTVKV	140
tr	AOA142EGH2	AOA142EGH2	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	.....	93
tr	AOAOH3UZU9	AOAOH3UZU9	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	DLRNMHTVKV	140
tr	AOAOH3UZP6	AOAOH3UZP6	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	DLRNMHTVKV	140
tr	AOA142EGJ1	AOA142EGJ1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTVKV	140
tr	AOA142EGL9	AOA142EGL9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTVKV	140
tr	AOA142EGL4	AOA142EGL4	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	DLRNMHTVKV	140
tr	AOA142EGH8	AOA142EGH8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTVKV	140
sp	Q33DQ2	THCAI	CANSA	Inactive tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTVKV	140
tr	AOA142EGK3	AOA142EGK3	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTVKV	140
tr	AOA142EGM5	AOA142EGM5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTVKV	140
tr	AOA142EGJ7	AOA142EGJ7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTVKV	140
tr	Q33DQ0	Q33DQ0	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTVKV	140
tr	Q33DP7	Q33DP7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTVKV	140
tr	Q33DP2	Q33DP2	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTVKV	140
tr	Q33DP3	Q33DP3	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTVKV	140
tr	Q33DP4	Q33DP4	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTVKV	140
tr	AOA142EGJ6	AOA142EGJ6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTIKV	140
tr	AOA142EGM4	AOA142EGM4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTIKV	140
tr	AOA142EGI0	AOA142EGI0	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTVKV	140
tr	AOA142EGK8	AOA142EGK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DLRNMHTVKV	140
tr	AOAOH3UZT7	AOAOH3UZT7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA4 PE 4 SV 1	DLRNMHSVKI	50
tr	AOAOH3VOW7	AOAOH3VOW7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA5 PE 4 SV 1MHSVKI	6
consensus						*****	

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tr	AOA142EGH9	AOA142EGH9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DVHSQTAWVE	150
tr	AOA2Z6C8F6	AOA2Z6C8F6	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA PE 4 SV 1	DVHSQTAWVE	62
sp	Q8GTB6	THCAS	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 1 SV 1	DVHSQTAWVE	150
tr	AOAOE3TIK8	AOAOE3TIK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	DVHSQTAWVE	150
tr	AOAOE3TIL1	AOAOE3TIL1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	DVHSQTAWVE	150
tr	AOA142EGH4	AOA142EGH4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DVHSQTAWVE	150
tr	AOA142EGK4	AOA142EGK4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DVHSQTAWVE	150
tr	AOA142EGH6	AOA142EGH6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DVHSQTAWVE	150
tr	AOAOE3XJ68	AOAOE3XJ68	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA1 PE 2 SV 1	DVHSQTAWVE	150
tr	AOA142EGI7	AOA142EGI7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DVHSQTAWVE	150
tr	AOA142EGN5	AOA142EGN5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DVHSQTAWVE	150
tr	AOA142EGI9	AOA142EGI9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	AOA142EGL7	AOA142EGL7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	AOA142EGL0	AOA142EGL0	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	AOA142EGI2	AOA142EGI2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	AOA142EGI4	AOA142EGI4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	AOA142EGL2	AOA142EGL2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	AOA142EGM0	AOA142EGM0	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	DIHSQTAWVE	150
tr	AOA142EGH2	AOA142EGH2	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	.....	93
tr	AOAOH3UZU9	AOAOH3UZU9	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	DIHSQTAWVE	150
tr	AOAOH3UZP6	AOAOH3UZP6	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	DIHSQTAWVE	150
tr	AOA142EGJ1	AOA142EGJ1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	AOA142EGL9	AOA142EGL9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	AOA142EGL4	AOA142EGL4	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	DIHSQTAWVE	150
tr	AOA142EGH8	AOA142EGH8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
sp	Q33DQ2	THCAI	CANSA	Inactive tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	AOA142EGK3	AOA142EGK3	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	AOA142EGM5	AOA142EGM5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	AOA142EGJ7	AOA142EGJ7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	Q33DQ0	Q33DQ0	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	Q33DP7	Q33DP7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	Q33DP2	Q33DP2	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	Q33DP3	Q33DP3	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	Q33DP4	Q33DP4	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	AOA142EGJ6	AOA142EGJ6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	AOA142EGM4	AOA142EGM4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	AOA142EGI0	AOA142EGI0	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	AOA142EGK8	AOA142EGK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	DIHSQTAWVE	150
tr	AOAOH3UZT7	AOAOH3UZT7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA4 PE 4 SV 1	DIHSQTAWVE	60
tr	AOAOH3VOW7	AOAOH3VOW7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA5 PE 4 SV 1	DVHSQTAWVE	16
consensus						*.*.*.*.*.*.*.*.*.*	

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AGATLGEVYY

tr	AOA142EGH9	AOA142EGH9	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOA2Z6C8F6	AOA2Z6C8F6	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa OX	3483	GN THCA	PE 4	SV 1	AGATLGEVYY	72
sp	Q8GTB6	THCAS	CANSA	Tetrahydrocannabinolic acid synthase	OS	Cannabis sativa OX	3483	PE 1	SV 1	AGATLGEVYY	160	
tr	AOAOE3TIK8	AOAOE3TIK8	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 2	SV 1	AGATLGEVYY	160	
tr	AOAOE3TIL1	AOAOE3TIL1	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 2	SV 1	AGATLGEVYY	160	
tr	AOA142EGH4	AOA142EGH4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOA142EGK4	AOA142EGK4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOA142EGH6	AOA142EGH6	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOAOE3XJ68	AOAOE3XJ68	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	GN THCA1	PE 2	SV 1	AGATLGEVYY	160
tr	AOA142EGI7	AOA142EGI7	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOA142EGN5	AOA142EGN5	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOA142EGI9	AOA142EGI9	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOA142EGL7	AOA142EGL7	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOA142EGL0	AOA142EGL0	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOA142EGI2	AOA142EGI2	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOA142EGI4	AOA142EGI4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOA142EGL2	AOA142EGL2	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOA142EGM0	AOA142EGM0	CANSA	Truncated THCA synthase	OS	Cannabis sativa OX	3483	PE 4	SV 1	AGATLGEVYY	160	
tr	AOA142EGH2	AOA142EGH2	CANSA	Truncated THCA synthase	OS	Cannabis sativa OX	3483	PE 4	SV 1	.....	93
tr	AOAOH3UZU9	AOAOH3UZU9	CANSA	Tetrahydrocannabinolic acid synthase	OS	Cannabis sativa OX	3483	GN THCA2	PE 3	SV 1	AGATLGEVYY	160
tr	AOAOH3UZP6	AOAOH3UZP6	CANSA	Tetrahydrocannabinolic acid synthase	OS	Cannabis sativa OX	3483	GN THCA2	PE 3	SV 1	AGATLGEVYY	160
tr	AOA142EGJ1	AOA142EGJ1	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOA142EGL9	AOA142EGL9	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOA142EGL4	AOA142EGL4	CANSA	Truncated THCA synthase	OS	Cannabis sativa OX	3483	PE 4	SV 1	AGATLGEVYY	160	
tr	AOA142EGH8	AOA142EGH8	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
sp	Q33DQ2	THCAI	CANSA	Inactive tetrahydrocannabinolic acid synthase	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOA142EGK3	AOA142EGK3	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOA142EGM5	AOA142EGM5	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOA142EGJ7	AOA142EGJ7	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	Q33DQ0	Q33DQ0	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	Q33DP7	Q33DP7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	Q33DP2	Q33DP2	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	Q33DP3	Q33DP3	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	Q33DP4	Q33DP4	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOA142EGJ6	AOA142EGJ6	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOA142EGM4	AOA142EGM4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOA142EGI0	AOA142EGI0	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOA142EGK8	AOA142EGK8	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	AGATLGEVYY	160	
tr	AOAOH3UZT7	AOAOH3UZT7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa OX	3483	GN THCA4	PE 4	SV 1	AGATLGEVYY	70
tr	AOAOH3VOW7	AOAOH3VOW7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa OX	3483	GN THCA5	PE 4	SV 1	AGATLGEVYY	26
consensus											*****	

WINE MENES

[illegible]

FPGGYCP TVC

[illegible]

VGGHFSGGY

[illegible]

tr	AOA142EGH9	AOA142EGH9	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOA2Z6C8F6	AOA2Z6C8F6	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	GN	THCA	PE	4	SV	1	GALMRNYGLA	112
sp	Q8GTB6	THCAS	CANSA	Tetrahydrocannabinolic acid synthase	OS	Cannabis sativa	OX	3483	PE	1	SV	1	GALMRNYGLA	200		
tr	AOAOE3TIK8	AOAOE3TIK8	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	2	SV	1	GALMRNYGLA	200		
tr	AOAOE3TIL1	AOAOE3TIL1	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	2	SV	1	GALMRNYGLA	200		
tr	AOA142EGH4	AOA142EGH4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOA142EGK4	AOA142EGK4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOA142EGH6	AOA142EGH6	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOAOE3XJ68	AOAOE3XJ68	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	GN	THCA1	PE	2	SV	1	GALMRNYGLA	200
tr	AOA142EGI7	AOA142EGI7	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOA142EGN5	AOA142EGN5	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOA142EGI9	AOA142EGI9	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOA142EGL7	AOA142EGL7	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOA142EGL0	AOA142EGL0	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOA142EGI2	AOA142EGI2	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOA142EGI4	AOA142EGI4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOA142EGL2	AOA142EGL2	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOA142EGM0	AOA142EGM0	CANSA	Truncated THCA synthase	OS	Cannabis sativa	OX	3483	PE	4	SV	1	GALMRNYGLA	200		
tr	AOA142EGH2	AOA142EGH2	CANSA	Truncated THCA synthase	OS	Cannabis sativa	OX	3483	PE	4	SV	1	.....	93	
tr	AOAOH3UZU9	AOAOH3UZU9	CANSA	Tetrahydrocannabinolic acid synthase	OS	Cannabis sativa	OX	3483	GN	THCA2	PE	3	SV	1	GALMRNYGLA	200
tr	AOAOH3UZP6	AOAOH3UZP6	CANSA	Tetrahydrocannabinolic acid synthase	OS	Cannabis sativa	OX	3483	GN	THCA2	PE	3	SV	1	GALMRNYGLA	200
tr	AOA142EGJ1	AOA142EGJ1	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOA142EGL9	AOA142EGL9	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOA142EGL4	AOA142EGL4	CANSA	Truncated THCA synthase	OS	Cannabis sativa	OX	3483	PE	4	SV	1	GALMRNYGLA	200		
tr	AOA142EGH8	AOA142EGH8	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
sp	Q33DQ2	THCAI	CANSA	Inactive tetrahydrocannabinolic acid synthase	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOA142EGK3	AOA142EGK3	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOA142EGM5	AOA142EGM5	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOA142EGJ7	AOA142EGJ7	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	Q33DQ0	Q33DQ0	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	Q33DP7	Q33DP7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	Q33DP2	Q33DP2	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	Q33DP3	Q33DP3	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	Q33DP4	Q33DP4	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOA142EGJ6	AOA142EGJ6	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOA142EGM4	AOA142EGM4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOA142EGI0	AOA142EGI0	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOA142EGK8	AOA142EGK8	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE	3	SV	1	GALMRNYGLA	200		
tr	AOAOH3UZT7	AOAOH3UZT7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	GN	THCA4	PE	4	SV	1	GALMRNYGLA	110
tr	AOAOH3VOW7	AOAOH3VOW7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	GN	THCA5	PE	4	SV	1	GALMRNYGLA	66
consensus													*****			

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tr	AOA142EGH9	AOA142EGH9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA2Z6C8F6	AOA2Z6C8F6	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA PE 4 SV 1	NVDGKVLDRK	132
sp	Q8GTB6	THCAS	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 1 SV 1	NVDGKVLDRK	220
tr	AOAOE3TIK8	AOAOE3TIK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	NVDGKVLDRK	220
tr	AOAOE3TIL1	AOAOE3TIL1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	NVDGKVLDRK	220
tr	AOA142EGH4	AOA142EGH4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA142EGK4	AOA142EGK4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA142EGH6	AOA142EGH6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOAOE3XJ68	AOAOE3XJ68	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA1 PE 2 SV 1	NVDGKVLDRK	220
tr	AOA142EGI7	AOA142EGI7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA142EGN5	AOA142EGN5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA142EGI9	AOA142EGI9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA142EGL7	AOA142EGL7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA142EGL0	AOA142EGL0	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA142EGI2	AOA142EGI2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA142EGI4	AOA142EGI4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA142EGL2	AOA142EGL2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA142EGM0	AOA142EGM0	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	NVDGKVLDRK	220
tr	AOA142EGH2	AOA142EGH2	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	.....	93
tr	AOAOH3UZU9	AOAOH3UZU9	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	NVDGKVLDRK	220
tr	AOAOH3UZP6	AOAOH3UZP6	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA142EGJ1	AOA142EGJ1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA142EGL9	AOA142EGL9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA142EGL4	AOA142EGL4	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	NVDGKVLDRK	220
tr	AOA142EGH8	AOA142EGH8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
sp	Q33DQ2	THCAI	CANSA	Inactive tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA142EGK3	AOA142EGK3	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA142EGM5	AOA142EGM5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA142EGJ7	AOA142EGJ7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	Q33DQ0	Q33DQ0	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	Q33DP7	Q33DP7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	Q33DP2	Q33DP2	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	Q33DP3	Q33DP3	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	Q33DP4	Q33DP4	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA142EGJ6	AOA142EGJ6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA142EGM4	AOA142EGM4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA142EGIO	AOA142EGIO	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOA142EGK8	AOA142EGK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	NVDGKVLDRK	220
tr	AOAOH3UZT7	AOAOH3UZT7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA4 PE 4 SV 1	NVDGKVLDRK	130
tr	AOAOH3VOW7	AOAOH3VOW7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA5 PE 4 SV 1	NVDGKVLDRK	86
consensus						*****	

tr	AOA142EGH9	AOA142EGH9	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	AOA2Z6C8F6	AOA2Z6C8F6	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	GN	THCA	PE 4	SV 1	142	
sp	Q8GTB6	THCAS	CANSA	Tetrahydrocannabinolic acid synthase	OS	Cannabis sativa	OX	3483	PE 1	SV 1		SMGEDLFWAI	230	
tr	AOAOE3TIK8	AOAOE3TIK8	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 2	SV 1		SMGEDLFWAI	230	
tr	AOAOE3TIL1	AOAOE3TIL1	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 2	SV 1		SMGEDLFWAI	230	
tr	AOA142EGH4	AOA142EGH4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	AOA142EGK4	AOA142EGK4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	AOA142EGH6	AOA142EGH6	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	AOAOE3XJ68	AOAOE3XJ68	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	GN	THCA1	PE 2	SV 1	230	
tr	AOA142EGI7	AOA142EGI7	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	AOA142EGN5	AOA142EGN5	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	AOA142EGI9	AOA142EGI9	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FMGEDLFWAI	230	
tr	AOA142EGL7	AOA142EGL7	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FMGEDLFWAI	230	
tr	AOA142EGL0	AOA142EGL0	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	AOA142EGI2	AOA142EGI2	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	AOA142EGI4	AOA142EGI4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	AOA142EGL2	AOA142EGL2	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	AOA142EGM0	AOA142EGM0	CANSA	Truncated THCA synthase	OS	Cannabis sativa	OX	3483	PE 4	SV 1		SMGEDLFWAI	230	
tr	AOA142EGH2	AOA142EGH2	CANSA	Truncated THCA synthase	OS	Cannabis sativa	OX	3483	PE 4	SV 1		.....	93
tr	AOAOH3UZU9	AOAOH3UZU9	CANSA	Tetrahydrocannabinolic acid synthase	OS	Cannabis sativa	OX	3483	GN	THCA2	PE 3	SV 1	SMGEDLFWAI	230
tr	AOAOH3UZP6	AOAOH3UZP6	CANSA	Tetrahydrocannabinolic acid synthase	OS	Cannabis sativa	OX	3483	GN	THCA2	PE 3	SV 1	SMGEDLFWAI	230
tr	AOA142EGJ1	AOA142EGJ1	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	AOA142EGL9	AOA142EGL9	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	AOA142EGL4	AOA142EGL4	CANSA	Truncated THCA synthase	OS	Cannabis sativa	OX	3483	PE 4	SV 1		SMGEDLFWAI	230	
tr	AOA142EGH8	AOA142EGH8	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
sp	Q33DQ2	THCAI	CANSA	Inactive tetrahydrocannabinolic acid synthase	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	AOA142EGK3	AOA142EGK3	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	AOA142EGM5	AOA142EGM5	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	AOA142EGJ7	AOA142EGJ7	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	Q33DQ0	Q33DQ0	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	Q33DP7	Q33DP7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	Q33DP2	Q33DP2	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	Q33DP3	Q33DP3	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	Q33DP4	Q33DP4	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	AOA142EGJ6	AOA142EGJ6	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	AOA142EGM4	AOA142EGM4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	AOA142EGI0	AOA142EGI0	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	AOA142EGK8	AOA142EGK8	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		SMGEDLFWAI	230	
tr	AOAOH3UZT7	AOAOH3UZT7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	GN	THCA4	PE 4	SV 1	SMGEDLFWAI	140
tr	AOAOH3VOW7	AOAOH3VOW7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	GN	THCA5	PE 4	SV 1	SMGEDLFWAI	96
consensus													*****	

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tr	AOA142EGH9	AOA142EGH9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVA	250
tr	AOA2Z6C8F6	AOA2Z6C8F6	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA PE 4 SV 1	IAAWKIKLVA	162
sp	Q8GTB6	THCAS	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 1 SV 1	IAAWKIKLVA	250
tr	AOAOE3TIK8	AOAOE3TIK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	IAAWKIKLVA	250
tr	AOAOE3TIL1	AOAOE3TIL1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	IAAWKIKLVA	250
tr	AOA142EGH4	AOA142EGH4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVA	250
tr	AOA142EGK4	AOA142EGK4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVA	250
tr	AOA142EGH6	AOA142EGH6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVA	250
tr	AOAOE3XJ68	AOAOE3XJ68	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA1 PE 2 SV 1	IAAWKIKLVD	250
tr	AOA142EGI7	AOA142EGI7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVD	250
tr	AOA142EGN5	AOA142EGN5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVA	250
tr	AOA142EGI9	AOA142EGI9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	AOA142EGL7	AOA142EGL7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	AOA142EGL0	AOA142EGL0	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	AOA142EGI2	AOA142EGI2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	AOA142EGI4	AOA142EGI4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	AOA142EGL2	AOA142EGL2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	AOA142EGMO	AOA142EGMO	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	IAAWKIKLVV	250
tr	AOA142EGH2	AOA142EGH2	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	.....	93
tr	AOAOH3UZU9	AOAOH3UZU9	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	IAAWKIKLVV	250
tr	AOAOH3UZP6	AOAOH3UZP6	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	IAAWKIKLVV	250
tr	AOA142EGJ1	AOA142EGJ1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	AOA142EGL9	AOA142EGL9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	AOA142EGL4	AOA142EGL4	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	IAAWKIKLVV	250
tr	AOA142EGH8	AOA142EGH8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
sp	Q33DQ2	THCAI	CANSA	Inactive tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	AOA142EGK3	AOA142EGK3	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	AOA142EGM5	AOA142EGM5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	AOA142EGJ7	AOA142EGJ7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	Q33DQ0	Q33DQ0	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	Q33DP7	Q33DP7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	Q33DP2	Q33DP2	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	Q33DP3	Q33DP3	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	Q33DP4	Q33DP4	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	AOA142EGJ6	AOA142EGJ6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	AOA142EGM4	AOA142EGM4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	AOA142EGIO	AOA142EGIO	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	AOA142EGK8	AOA142EGK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	IAAWKIKLVV	250
tr	AOAOH3UZT7	AOAOH3UZT7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA4 PE 4 SV 1	IAAWKIRLVA	160
tr	AOAOH3VOW7	AOAOH3VOW7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA5 PE 4 SV 1	IAAWKIRLVA	116
consensus						*****	

VPSKATFSV

[illegible]

KKMEIHGLV

[illegible]

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tr	AOA142EGH9	AOA142EGH9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA2Z6C8F6	AOA2Z6C8F6	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA PE 4 SV 1	KLFNKKWQNI	192
sp	Q8GTB6	THCAS	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 1 SV 1	KLFNKKWQNI	280
tr	AOAOE3TIK8	AOAOE3TIK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	KLFNKKWQNI	280
tr	AOAOE3TIL1	AOAOE3TIL1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	KLFNKKWQNI	280
tr	AOA142EGH4	AOA142EGH4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA142EGK4	AOA142EGK4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA142EGH6	AOA142EGH6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOAOE3XJ68	AOAOE3XJ68	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA1 PE 2 SV 1	KLFNKKWQNI	280
tr	AOA142EGI7	AOA142EGI7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA142EGN5	AOA142EGN5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA142EGI9	AOA142EGI9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA142EGL7	AOA142EGL7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA142EGL0	AOA142EGL0	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA142EGI2	AOA142EGI2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA142EGI4	AOA142EGI4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA142EGL2	AOA142EGL2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA142EGM0	AOA142EGM0	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	KLFNKKWQNI	280
tr	AOA142EGH2	AOA142EGH2	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	.....	93
tr	AOAOH3UZU9	AOAOH3UZU9	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	KLFNKKWQNI	280
tr	AOAOH3UZP6	AOAOH3UZP6	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA142EGJ1	AOA142EGJ1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA142EGL9	AOA142EGL9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA142EGL4	AOA142EGL4	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	KLFNKKWQNI	280
tr	AOA142EGH8	AOA142EGH8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
sp	Q33DQ2	THCAI	CANSA	Inactive tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA142EGK3	AOA142EGK3	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA142EGM5	AOA142EGM5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA142EGJ7	AOA142EGJ7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	Q33DQ0	Q33DQ0	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	Q33DP7	Q33DP7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	Q33DP2	Q33DP2	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	Q33DP3	Q33DP3	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	Q33DP4	Q33DP4	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA142EGJ6	AOA142EGJ6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA142EGM4	AOA142EGM4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA142EGI0	AOA142EGI0	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOA142EGK8	AOA142EGK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	KLFNKKWQNI	280
tr	AOAOH3UZT7	AOAOH3UZT7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA4 PE 4 SV 1	KLFNKKWQNI	190
tr	AOAOH3VOW7	AOAOH3VOW7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA5 PE 4 SV 1	KLVNKKWQNI	146
consensus						*****	

YKYDKDLMT

[illegible]

THE RINK

N H G K N K T T V H

[illegible]

GYFSS|F_LGG

[illegible]

VDSLVDLMNK

[illegible]

SFPELGIIKKT

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DOCKETS

DCKEFSWIDT	350
DCKEFSWIDT	262
DCKEFSWIDT	350
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DCKEFSWIDT	350
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DCKELSWIDT	350
DCKELSWIDT	260
DCKQLSWIDT	216

TIFYSGWN_FY

[illegible]

NTNFKEI

[illegible]

LDRSAGKKTA

[illegible]

FSIKLDYWKK

FSIKLDYVKK	390
FSIKLDYVKK	302
FSIKLDYVKK	390
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FSIKLDYVKK	390
FSIKLDYVKK	390
FSIKLDYVKK	390
.	93
FSIKLDYVKK	390
FSIKLDYVKK	390
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.	295
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FSIKLDYVKK	390
FSIKLDYVKK	390
FSIKLDYVKK	300
FSIKLDYVKK	256

LPETAMK

P	I P E T A M V K I	400
P	I P E T A M V K I	312
P	I P E T A M V K I	400
P	I P E T A M V K I	400
P	I P E T A M V K I	400
P	I P E T A M V K I	400
P	I P E T A M V K I	400
P	I P E T A M V K I	400
P	I P E T A M V K I	400
L	I P E T A M V K I	400
L	I P E T A M V K I	400
L	I P E T A M V K I	400
L	I P E T A M V K I	400
L	I P E T A M V K I	400
L	I P E T A M V K I	400
L	I P E T A M V K I	400
.	.	93
L	I P E T A M V K I	400
L	I P E T A M V K I	400
L	I P E T A M V K I	400
L	I P E T A M V K I	400
.	.	295
L	I P E T A M V K I	400
L	I P E T A M V K I	400
L	I P E T A M V K I	400
L	I P E T A M V K I	400
L	I P E T A M V K I	400
L	I P E T A M V K I	400
L	I P E T A M V K I	400
L	I P E T A M V K I	400
L	I P E T A M V K I	400
L	I P E T A M V K I	400
L	I P E T A M V K I	400
L	I P E T A M V K I	400
P	I P E T A M V K I	310
P	I P E T A M V T I	266
*	* * * * *	

LEKLYEEV

[illegible]

logo



tr	AOA142EGH9	AOA142EGH9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	AGMYVLYPYG	420
tr	AOA2Z6C8F6	AOA2Z6C8F6	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA PE 4 SV 1	AGMYVLYPYG	332
sp	Q8GTB6	THCAS	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 1 SV 1	AGMYVLYPYG	420
tr	AOAOE3TIK8	AOAOE3TIK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	AGMYVLYPYG	420
tr	AOAOE3TIL1	AOAOE3TIL1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	AGMYVLYPYG	420
tr	AOA142EGH4	AOA142EGH4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	AGMYVLYPYG	420
tr	AOA142EGK4	AOA142EGK4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	AGMYVLYPYG	420
tr	AOA142EGH6	AOA142EGH6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	AGMYVLYPYG	420
tr	AOAOE3XJ68	AOAOE3XJ68	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA1 PE 2 SV 1	AGMYVLYPYG	420
tr	AOA142EGI7	AOA142EGI7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	AGMYVLYPYG	420
tr	AOA142EGN5	AOA142EGN5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
tr	AOA142EGI9	AOA142EGI9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
tr	AOA142EGL7	AOA142EGL7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
tr	AOA142EGL0	AOA142EGL0	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
tr	AOA142EGI2	AOA142EGI2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
tr	AOA142EGI4	AOA142EGI4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
tr	AOA142EGL2	AOA142EGL2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
tr	AOA142EGM0	AOA142EGM0	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	VGMYVLYPYG	420
tr	AOA142EGH2	AOA142EGH2	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	.....	93
tr	AOAOH3UZU9	AOAOH3UZU9	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	VGMYVLYPYG	420
tr	AOAOH3UZP6	AOAOH3UZP6	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	VGMYVLYPYG	420
tr	AOA142EGJ1	AOA142EGJ1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYD	420
tr	AOA142EGL9	AOA142EGL9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYD	420
tr	AOA142EGL4	AOA142EGL4	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	.....	295
tr	AOA142EGH8	AOA142EGH8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
sp	Q33DQ2	THCAI	CANSA	Inactive tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
tr	AOA142EGK3	AOA142EGK3	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
tr	AOA142EGM5	AOA142EGM5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
tr	AOA142EGJ7	AOA142EGJ7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
tr	Q33DQ0	Q33DQ0	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
tr	Q33DP7	Q33DP7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
tr	Q33DP2	Q33DP2	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
tr	Q33DP3	Q33DP3	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
tr	Q33DP4	Q33DP4	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
tr	AOA142EGJ6	AOA142EGJ6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
tr	AOA142EGM4	AOA142EGM4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
tr	AOA142EGI0	AOA142EGI0	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
tr	AOA142EGK8	AOA142EGK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	VGMYVLYPYG	420
tr	AOAOH3UZT7	AOAOH3UZT7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA4 PE 4 SV 1	AGMYV.....	325
tr	AOAOH3VOW7	AOAOH3VOW7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA5 PE 4 SV 1	VGMFV.....	281
consensus						*****	

GIMPE | SES A

[illegible]

IPFPHRAGIM

IPFPHRAGIM	440
IPFPHRAGIM	352
IPFPHRAGIM	440
IPFPHRAGIM	440
IPFPHRAGIM	440
IPFPHRAGIM	440
IPFPHRAGIM	440
IPFPHRAGIM	440
IPFPHRAGIM	440
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IPFPHRA...	437
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IPFPHRAGIM	440
.....	295
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IPFPHRAGIM	440
.....	325
.....	281

VELVET

[illegible]

KQEDNEKHIN

KQEDNEKHIN	460
KQEDNEKHIN	372
KQEDNEKHIN	460
KQEDNEKHIN	460
KQEDNEKHIN	460
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KQEDNEKHIN	460
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KQEDNEKHIN	460
KQEDNEKHIN	460
KQEDNEKHIN	460
KQEDNEKHIN	460
KQEDNEKHIN	460
KQEDNEKHIN	460
.	437
.	93
KQEDNEKHIN	460
KQEDNEKHIN	460
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KQEDNEKHIN	460
.	325
.	281

W R S V Y N F T T

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logo

PYVSNPRLA

tr	AOA142EGH9	AOA142EGH9	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	AOA2Z6C8F6	AOA2Z6C8F6	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa OX	3483	GN THCA	PE 4	SV 1	PYVSNPRLA	392
sp	Q8GTB6	THCAS	CANSA	Tetrahydrocannabinolic acid synthase	OS	Cannabis sativa OX	3483	PE 1	SV 1	PYVSNPRLA	480	
tr	AOAOE3TIK8	AOAOE3TIK8	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 2	SV 1	PYVSNPRLA	480	
tr	AOAOE3TIL1	AOAOE3TIL1	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 2	SV 1	PYVSNPRLA	480	
tr	AOA142EGH4	AOA142EGH4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	AOA142EGK4	AOA142EGK4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	AOA142EGH6	AOA142EGH6	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	AOAOE3XJ68	AOAOE3XJ68	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	GN THCA1	PE 2	SV 1	PYVSNPRLA	480
tr	AOA142EGI7	AOA142EGI7	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	AOA142EGN5	AOA142EGN5	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	AOA142EGI9	AOA142EGI9	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	AOA142EGL7	AOA142EGL7	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	AOA142EGL0	AOA142EGL0	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	AOA142EGI2	AOA142EGI2	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	AOA142EGI4	AOA142EGI4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	AOA142EGL2	AOA142EGL2	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	AOA142EGMO	AOA142EGMO	CANSA	Truncated THCA synthase	OS	Cannabis sativa OX	3483	PE 4	SV 1	.....	437
tr	AOA142EGH2	AOA142EGH2	CANSA	Truncated THCA synthase	OS	Cannabis sativa OX	3483	PE 4	SV 1	.....	93
tr	AOAOH3UZU9	AOAOH3UZU9	CANSA	Tetrahydrocannabinolic acid synthase	OS	Cannabis sativa OX	3483	GN THCA2	PE 3	SV 1	PYVSNPRLA	480
tr	AOAOH3UZP6	AOAOH3UZP6	CANSA	Tetrahydrocannabinolic acid synthase	OS	Cannabis sativa OX	3483	GN THCA2	PE 3	SV 1	PYVSNPRLA	480
tr	AOA142EGJ1	AOA142EGJ1	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PCVSNPRLA	480	
tr	AOA142EGL9	AOA142EGL9	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PCVSNPRLA	480	
tr	AOA142EGL4	AOA142EGL4	CANSA	Truncated THCA synthase	OS	Cannabis sativa OX	3483	PE 4	SV 1	.....	295
tr	AOA142EGH8	AOA142EGH8	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
sp	Q33DQ2	THCAI	CANSA	Inactive tetrahydrocannabinolic acid synthase	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	AOA142EGK3	AOA142EGK3	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	AOA142EGM5	AOA142EGM5	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	AOA142EGJ7	AOA142EGJ7	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	Q33DQ0	Q33DQ0	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	Q33DP7	Q33DP7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	Q33DP2	Q33DP2	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	Q33DP3	Q33DP3	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	Q33DP4	Q33DP4	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	AOA142EGJ6	AOA142EGJ6	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	AOA142EGM4	AOA142EGM4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	AOA142EGIO	AOA142EGIO	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	AOA142EGK8	AOA142EGK8	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa OX	3483	PE 3	SV 1	PYVSNPRLA	480	
tr	AOAOH3UZT7	AOAOH3UZT7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa OX	3483	GN THCA4	PE 4	SV 1	325
tr	AOAOH3VOW7	AOAOH3VOW7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa OX	3483	GN THCA5	PE 4	SV 1	281
consensus											*****	

Y L N Y R D L D L G

[illegible]

K T N P E S P N N Y
H A

[illegible]

TQARIWGEK

[illegible]

FGKNFNRVLVK

[illegible]

VKTKADPNF

[illegible]

FRNEQS | PP |

tr	AOA142EGH9	AOA142EGH9	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOA2Z6C8F6	AOA2Z6C8F6	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	GN	THCA	PE 4	SV 1	409	
sp	Q8GTB6	THCAS	CANSA	Tetrahydrocannabinolic acid synthase	OS	Cannabis sativa	OX	3483	PE 1	SV 1		FRNEQSIPPL	540	
tr	AOAOE3TIK8	AOAOE3TIK8	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 2	SV 1		FRNEQSIPPL	540	
tr	AOAOE3TIL1	AOAOE3TIL1	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 2	SV 1		FRNEQSIPPL	540	
tr	AOA142EGH4	AOA142EGH4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOA142EGK4	AOA142EGK4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOA142EGH6	AOA142EGH6	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOAOE3XJ68	AOAOE3XJ68	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	GN	THCA1	PE 2	SV 1	540	
tr	AOA142EGI7	AOA142EGI7	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOA142EGN5	AOA142EGN5	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOA142EGI9	AOA142EGI9	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOA142EGL7	AOA142EGL7	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOA142EGL0	AOA142EGL0	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOA142EGI2	AOA142EGI2	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOA142EGI4	AOA142EGI4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOA142EGL2	AOA142EGL2	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOA142EGM0	AOA142EGM0	CANSA	Truncated THCA synthase	OS	Cannabis sativa	OX	3483	PE 4	SV 1		.....	437
tr	AOA142EGH2	AOA142EGH2	CANSA	Truncated THCA synthase	OS	Cannabis sativa	OX	3483	PE 4	SV 1		.....	93
tr	AOAOH3UZU9	AOAOH3UZU9	CANSA	Tetrahydrocannabinolic acid synthase	OS	Cannabis sativa	OX	3483	GN	THCA2	PE 3	SV 1	FRNEQSIPPL	540
tr	AOAOH3UZP6	AOAOH3UZP6	CANSA	Tetrahydrocannabinolic acid synthase	OS	Cannabis sativa	OX	3483	GN	THCA2	PE 3	SV 1	FRNEQSIPPL	540
tr	AOA142EGJ1	AOA142EGJ1	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOA142EGL9	AOA142EGL9	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOA142EGL4	AOA142EGL4	CANSA	Truncated THCA synthase	OS	Cannabis sativa	OX	3483	PE 4	SV 1		.....	295
tr	AOA142EGH8	AOA142EGH8	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
sp	Q33DQ2	THCAI	CANSA	Inactive tetrahydrocannabinolic acid synthase	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOA142EGK3	AOA142EGK3	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOA142EGM5	AOA142EGM5	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOA142EGJ7	AOA142EGJ7	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	Q33DQ0	Q33DQ0	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	Q33DP7	Q33DP7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	Q33DP2	Q33DP2	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	Q33DP3	Q33DP3	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	Q33DP4	Q33DP4	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOA142EGJ6	AOA142EGJ6	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOA142EGM4	AOA142EGM4	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOA142EGI0	AOA142EGI0	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOA142EGK8	AOA142EGK8	CANSA	THCA synthase (Fragment)	OS	Cannabis sativa	OX	3483	PE 3	SV 1		FRNEQSIPPL	540	
tr	AOAOH3UZT7	AOAOH3UZT7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	GN	THCA4	PE 4	SV 1	325
tr	AOAOH3VOW7	AOAOH3VOW7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS	Cannabis sativa	OX	3483	GN	THCA5	PE 4	SV 1	281
consensus													*****	

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tr	AOA142EGH9	AOA142EGH9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHH.	544
tr	AOA2Z6C8F6	AOA2Z6C8F6	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA PE 4 SV 1	.....	409
sp	Q8GTB6	THCAS	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 1 SV 1	PPHHH	545
tr	AOAOE3TIK8	AOAOE3TIK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	PPHHH	545
tr	AOAOE3TIL1	AOAOE3TIL1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 2 SV 1	PPHHH	545
tr	AOA142EGH4	AOA142EGH4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHH.	544
tr	AOA142EGK4	AOA142EGK4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHHH	545
tr	AOA142EGH6	AOA142EGH6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHH.	544
tr	AOAOE3XJ68	AOAOE3XJ68	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA1 PE 2 SV 1	PPHHH	545
tr	AOA142EGI7	AOA142EGI7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHH.	544
tr	AOA142EGN5	AOA142EGN5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHHH	545
tr	AOA142EGI9	AOA142EGI9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHH.	544
tr	AOA142EGL7	AOA142EGL7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHHH	545
tr	AOA142EGL0	AOA142EGL0	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHHH	545
tr	AOA142EGI2	AOA142EGI2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHH.	544
tr	AOA142EGI4	AOA142EGI4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHH.	544
tr	AOA142EGL2	AOA142EGL2	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHHH	545
tr	AOA142EGMO	AOA142EGMO	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	.....	437
tr	AOA142EGH2	AOA142EGH2	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	.....	93
tr	AOAOH3UZU9	AOAOH3UZU9	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	PPHHH	545
tr	AOAOH3UZP6	AOAOH3UZP6	CANSA	Tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 GN THCA2 PE 3 SV 1	PPHHH	545
tr	AOA142EGJ1	AOA142EGJ1	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHH.	544
tr	AOA142EGL9	AOA142EGL9	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHHH	545
tr	AOA142EGL4	AOA142EGL4	CANSA	Truncated THCA synthase	OS Cannabis sativa OX 3483 PE 4 SV 1	.....	295
tr	AOA142EGH8	AOA142EGH8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHH.	544
sp	Q33DQ2	THCAI	CANSA	Inactive tetrahydrocannabinolic acid synthase	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHHH	545
tr	AOA142EGK3	AOA142EGK3	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHHH	545
tr	AOA142EGM5	AOA142EGM5	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHHH	545
tr	AOA142EGJ7	AOA142EGJ7	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHH.	544
tr	Q33DQ0	Q33DQ0	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHHH	545
tr	Q33DP7	Q33DP7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHHH	545
tr	Q33DP2	Q33DP2	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHHH	545
tr	Q33DP3	Q33DP3	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHHH	545
tr	Q33DP4	Q33DP4	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHHH	545
tr	AOA142EGJ6	AOA142EGJ6	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHH.	544
tr	AOA142EGM4	AOA142EGM4	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHHH	545
tr	AOA142EGIO	AOA142EGIO	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHH.	544
tr	AOA142EGK8	AOA142EGK8	CANSA	THCA synthase (Fragment)	OS Cannabis sativa OX 3483 PE 3 SV 1	PPHHH	545
tr	AOAOH3UZT7	AOAOH3UZT7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA4 PE 4 SV 1	.....	325
tr	AOAOH3VOW7	AOAOH3VOW7	CANSA	Tetrahydrocannabinolic acid synthase (Fragment)	OS Cannabis sativa OX 3483 GN THCA5 PE 4 SV 1	.....	281
consensus							****

☒ non conserved
☒ ≥ 50% conserved