Supplementary Figure S1: Molecular identification, anatomical and morphological characterization of ectomycorrhizal fungal species found on roots of young beech (Fagus sylvatica). Column "Species" contains name of species and Genbank accession number, "reference accession number" contains species name identified by best BLAST match and its accession number in either UNITE (all accessions starting with UDB) or Genbank (all other numbers), "Max ident" indicates the length of the nucleotide sequences and their identity (%) with the reference sequence.

Species	Best BLAST match*			
	Reference accession No.	Max Ident (%)	Cross section	Morphotype
Cenococcum geophilum	Not sequenced ¹		Mantel width: 30.0μm	Single, black, compact mantel, black rigid hyphae emanating
				from mantel
	UDB000996 Tuber rufum	491/493 (99%)	_ 50 µт _	500μm
Tuber rufum (HM748641)	FN433168 Tuber rufum	505/512 (99%)	Mantel width: 22.34μm	Monopodial-pinnate ramification, light brown, rare whitish emanating hyphae

<i>Tuber</i> sp 2 (HM748637)	UDB001385 Tuber puberulum	286/311 (92%)	50 µm.	500μm
	FM205642 Tuber borchii	459/461 (99%)	Mantel width: 20.5μm	Single or monopodial branched, brown orange, abundant equal-short emanating hyphae
Tomentella punicea (HM748638)	UDB000950 Tomentella punicea	456/458 (99%)	Mantel width: 36.8μm	
	AY299299 Unculture Tomentella	457/458 (99%)		Monopodial irregularly branched, brown, few emanating hyphae
<i>Tuber</i> sp 1 (HM748636)	UDB000121 Tuber maculatum	310/345 (89%)	Mantel width: 28.8µm	500µm
	EU668241 Uncultured Tuber isolate	387/387 (100%)		Monopodial-pinnate, light brown, with short irregular hyphae
UEM Sebacina (HM748642)	UDB000975 Sebacina epigaea	292/303 (96%)		500µm

			Monopodial ramified, brown
	EU668267 Uncultured Sebacina	387/394 (98%)	yellowish, with white long emanating hyphae
Cortinarius like	Not sequenced ¹		Irregularly pinnate ramified, brown-reddish, with abundant white emanating hyphae and rhizomorphs
Tomentella badia (HM748639)	UDB000952 Tomentella badia	396/399 (98%)	500µm
	GQ478014 Uncultured Tomentella	472/488 (96%)	Monopodial, brown, with only few emanating hyphae
UEM Telephoraceae (HM748640)	UDB003313 Tomentella	500/530 (94%)	500µm
	DQ150126: Uncultured Thelephoraceae	400/409 (95%)	Monopodial-pinnate or monopodial-pyramidal, black, with rigid, relative abundant, yellow brownish hyphae

^{*}Best alignments by UNITE (accession numbers starting with UDB) or NCBI (all other accession numbers) and similarities with known BLAST sequences are shown. ¹ sequencing failed and the species were determined by the characteristic morphotypes.