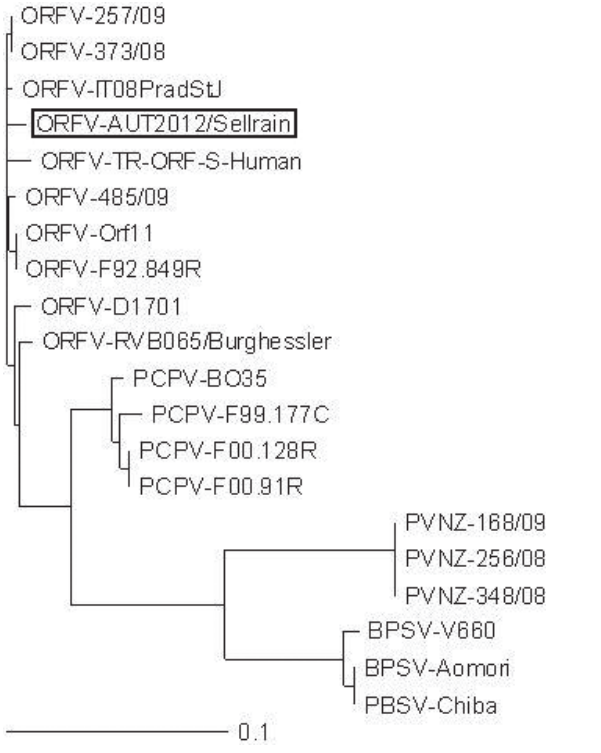

Fig. S1. Sequence comparison between Orf-virus (ORFV) isolate from patient and regional sheep isolates. Phylogenetic alignment of the patient isolate (ORFV-AUT/2012/Sellrain) with Orf-virus (ORFV) strains from Italy (257/09; 373/08; 485/09; IT08PradStJ), Germany (D1701, RVB065/Burghessler), Finland (F92.849), Turkey (TR-ORF-S-Human) and New Zealand (Orf11). For comparison also bovine and reindeer isolates from pseudocowpox virus (PCPV), isolates from bovine papular stomatitis virus (BPSV) and parapox virus of red deer in New Zealand (PVNZ) are shown. Note that the 3 PVNZ isolates found in Italian red deer (168/09; 256/08; 348/08) are rather divergent from the prevalent ORFV strains.

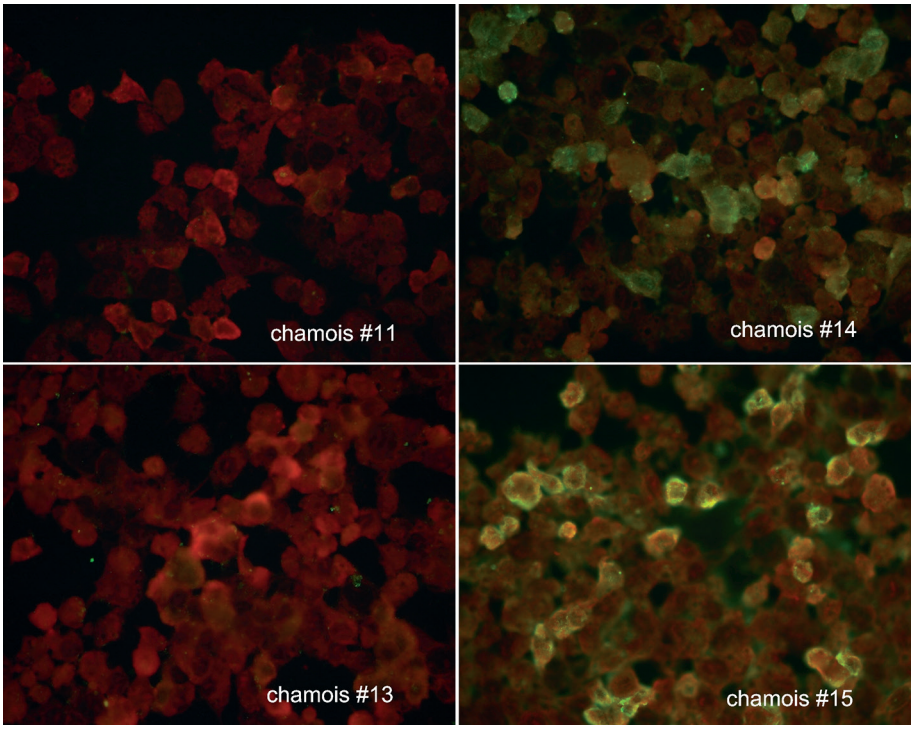

Fig. S2. Detection of antibodies to Orf virus in blood from chamois. Reaction of serum antibodies of selected animals with Orf virus infected Vero cells in indirect immunofluorescence is shown. Animal Nos14 and 15 tested positive, whereas Nos 11, 13 (and others) were clearly negative at the tested dilution (1:40).

Table SI. *Parapoxvirus strain sequences downloaded from GenBank and included for comparison*

Virus species	Isolate name	Country of origin	Source	GenBank accession#
ORFV	257/09	Italy	Chamois	HQ239071
ORFV	373/08	Italy	Ibex	HQ239072
ORFV	485/09	Italy	Chamois	HQ239073
ORFV	IT08PradStJ	Italy, South Tyrol	Human	FM178392
ORFV	D1701	Germany	Sheep	AY453654
ORFV	RVB065/Burghessler	Germany	Sheep	FM178391
ORFV	TR-ORF-S-human	Turkey	Sheep	JQ936990
ORFV	F92.849R	Finland	Reindeer	AY453659
ORFV	Orf11	New Zealand	Sheep	AY453666
PCPV	BO35	Finland	Bovine	AY453653
PCPV	F99.177C	Finland	Bovine	AY453663
PCPV	F00.91R	Finland	Reindeer	AY453658
PCPV	F00.128R	Finland	Reindeer	AY453657
PVNZ	168/09	Italy	Deer	HQ239068
PVNZ	256/08	Italy	Deer	HQ239069
PVNZ	348/08	Italy	Deer	HQ239070
BPSV	Aomori	Japan	Serow	AB044797
BPSV	Chiba	Japan	Serow	AB044798
BPSV	V660	Finland	Bovine	AB044793