Additional file 7  Ovine OBSL1 isoform X1 protein sequences (XP_027821027) for wildtype (SheepWT) and mutant (SheepMT) sheep. The predicted mutant c.1716delC (p.(Val573Trpfs*119)) altered amino acid sequence is highlighted in red.

>SheepWT
MKAGSDQGSPPCCFLRFPRPVRVSGAEAEKLKVVLGEPPIVWWEKGGQ
QLAASDRLSFVPDGAHCLLSSGTDGAGVYVCRARNSAGEAYAAAATV
VLEPPAPEPEPQLAPPLPPGPAGGPAPVFLTPGFRSQQWVLGAEVVELCQ
VGGLPAPTLYWEKGDMLDEWDSSHFSLEPRAGASLALRILARLP
DSGITYVCHNARAHGARAGALLQVQQPPEGFDPDEAPTPVPEPLKCAP
KTFWVNEEKHKFRCYVMGKEPEIEWHEGRPLLPMRRMLMYRDRDGDF
VLKLYCQAKDGRLYVCAARNSAQFTSAVQHLVKEPRLFSRPLQDVEG
REHGIAVLECKVPNSRIPTAWFREDQRLLPCRKYEQIEEGTVRRRLIIHRL
KADDDGVYLCEMGRVTVANVTQGPKRLPRKLDVFEGENAVLLVET
REAGVEGRWSDGELPLATCQSSSGHMHALVLPVTRDAGETFSLGNS
RTTTLRVEKCIKHSPPGPVLAEMFGHRTNVTLLWTKPDTPETAFIYR
LERQEVGSEDWVQCFSEIKAGAEEVEPDCVPTGEDYFRVCTVSEHRGSP
HVVFHGSAHLVTAPRVLVAGLEEVEQVYDGEDAVFSLDLSTVIQGTWFLNGE
ELKSNPEQGQVPGDLPYREQEQRGLQHRLIQAVRQHDQALIGGFSCPGV
QDSAAALTIQESPHILSFDQKVLFTTFSTDRVLTCELSRFDPASWYKD
GQQVEEESISLVKMDGKRHRLPLPEAQVQDSGGEFCRTEGVSDFSTVQ
PPVHIVAPREHVFVHAITSECVMLTCEVDREDAPVHFKDQVEEESDF
VLESEGHPHRVLPASQPSIGFQCVAGDERAYFTVTITDVSSWIVYP
SGKVVVAARVLERVLFVLTCELCPWAEVRWTKDGEEVVESPTLQQEDTV
RRVLPAVQLEDGVEYLCEIDDESASFTVTVTEPPRILPRDEVILAV
SLECVMELCSESAPVRWYKDGLEVESEALVLESDGPPRLVPAAQ
PQDGGEFVDAGGDDSAFTVTVTAPPERRIVPAARSRLDLQFRAPGRVELR
CEVAPAGSQRWYKDGLEVEASEALQLAGAEGPTRTLTPLPHAQPEDAGYEV
CETRDEAVTFNVSLAEPPQFLAPEAAAPGLCVAQGEPVVLSCELSRAGA
LVFWSHNGKPVQTGEGLELRAEGPRLCIRADLAHAGLYTCQCGAAPG
APLSFTVQVAEPPVRVVAPEAAQTRVRSTPGDGLELAVRLSGPGGVPVRW
YKDGGERLASQGRVQLEQDGARQVRGLRVRGARSRDAGEYLCRTIQQDSRIFLV
SVEEPPLVKLVSELTPTLVHEGDDATFRECQVSPPDADIWLNRNVVITFG
PQLETTQNGSSRLTLVRSRCLLEDAGTVTARAGGTSTSSARLHVRETELLFL
RRLQDVRAEESQGDQVLEVEVTRGLVGARVVRGGAPLPDSRLSTQAQDG
HVFRFLFIFSVLADQTYGCESHHDLRLSVRPRKQLVRLPLEDVTTII
EGGNATFQALELSQEGVTGEWARGGVRLOPGPKCQIAEGPTHHLVLSGLG
LADSCGCSFTADTRLCAARLTREVAPVTIVRGLQDLEVTEGTATFECAL
SQLALADVTWKDGQPLTPSARLQLQALGTRLLQLRRCSPLDAGTYSCEV
GAMRTGPVHLVVRERKVSVLSELRSVSAREGDATFEVTSEVETAGSWE
LGGRPLRFPGGVRIRQEGKKHILVLSSLSELRAEDAGEVRFQAGPAQSVAQLE
VEALPLQMRRPPPREKTVLRVGRAMAVRLETVSRPGQVCWLERGAELCPGD
KYQLRSHPGLSHLVIHDVREPQGTYYCCRAQDAYSAYRTLVEGDAPLST

>SheepMT
MKAGSGDQGSPPCFLRFPRPVVVSGAELKCVCVLGEPPVVWEKGGQ
QLAASDRLSFPVDSGAEEHCLLSSGALPDADGVYVCARNSAGEAYAAAAVT
VLEPPAPEPPEPQLAERPLPPPGAGEGAPVFLTGPRSQWVLGAEVVLECQ
VGGLPAPTLYWEKDGMADEVWDSSHSFLPSLEGRAGAGASLALRLAARLP
DSGVYVCHARRAHARGARALLQVQQPPESPPEDPDEAPTPVVEPLKCAP
KTFWENEGKHKFCYVVMGKEPEIEWHWEGRRPLLDDRRMLYRDGGGF
VLKVLYCQAKDRGLYVCAARNSAGQTLSAVQLHVKEPLRFRSRPLQDVEG
REHGIASVLECKVPNSRITAWFREDQRLLPCRKYEQIEEGTVRRLIHR
KADDGQYVCMLERMGVRVTANVTKGPLIKRLPRKLDFEGENAVLLVET
REAGVEGRWSRDGDLPATCQSSSGHMHALVLPVGTVREDAEGVTSFLNGS
RTTTLRVKCIKHSSPQPPVAEMFKGHRTVLLTWWPPDTPTEAIFYR
LERQEVGSEDWVQCFIEKAGAARCPGTACLPKATTASESALSANTAIAIT
TWCSTGLLTSCPQLAWLWWRRYRCMMGGKTFSSPWISPPSSRAPGSLTGR
SSRVTSSQRARWGPAPGCTGWNSVACSTGSSCRPSGRTAGF