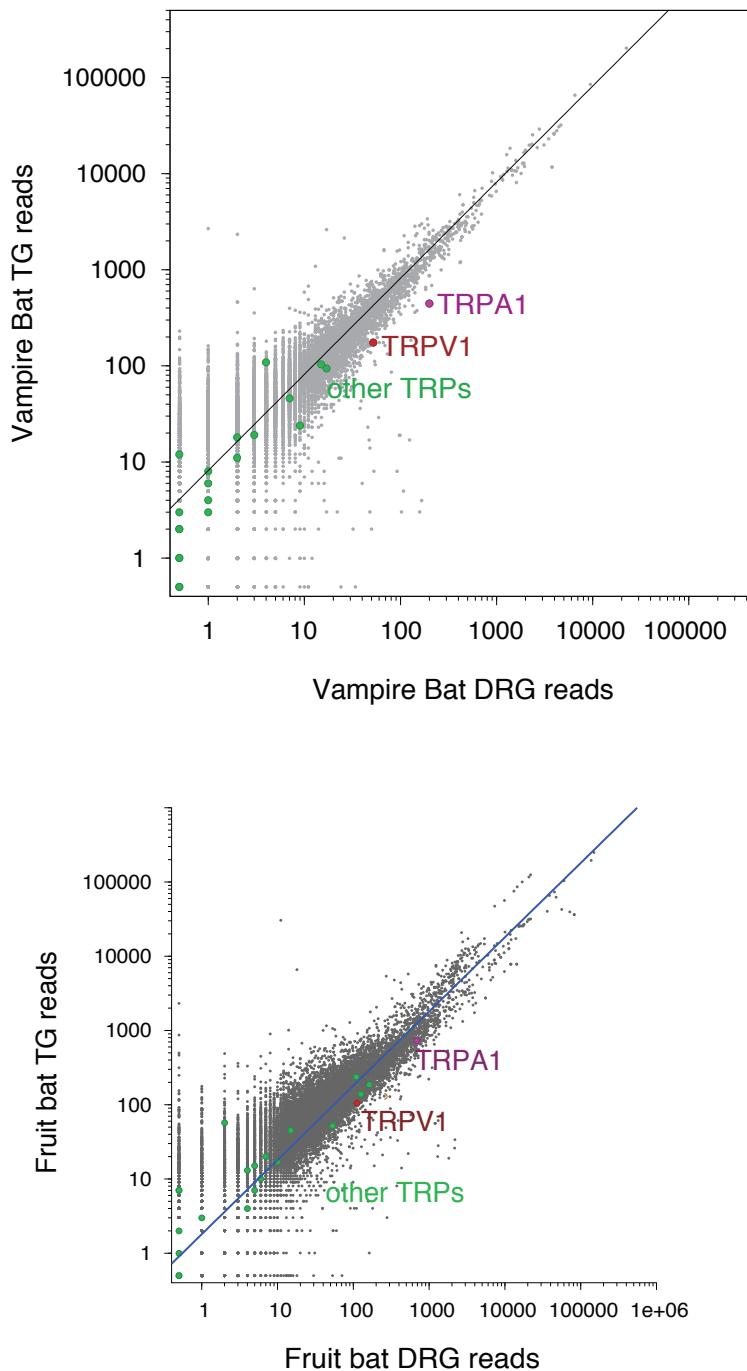


SUPPLEMENTARY INFORMATION

doi:10.1038/nature10245



Supplementary Figure 1

Transcriptome profiling of vampire bat and fruit bat sensory ganglia

Number of mRNA-seq reads from sensory ganglia of vampire bat (*Desmodus rotundus*, top) and fruit bat (*Carollia brevicauda*, bottom) ganglia that align to the cow proteome. Blue line indicates expected number of sequencing reads for genes with similar expression levels in the two samples based on the total number of aligned reads from each.

```

1 mkkrgssdsgeasedlpqedslpdldgnphsrpapaksnilmakrrrlfgkgsseaaqgdcsykeqhpascpaivspvltvqktedgptctwqlcgdsmpagtkkclklydrkkifeavaqnncel
1 mkkrgssdsgeasedlpqedslpdldgnphsrpapaknpiptaksrslfgkgdseeassldcgsykeqgpascpaivspvlmvgqtedgptctwqlcqdsmpagtkkslklydrkkifeavaqnncel

131 eslllflqskkhlmerefkdpktcllkamnlhngqnnplleiarqtds1kelvnsaytdsyykgqtalhiaierrnmalvtllvengadvqaangdffkktkgrpgfyfgeplslaactn
131 eslllflqskkhlmerefkdpktcllkamnlhngqnnplleiarqtds1kelvnsayidsyykgqtalhiaierrnmalvtllvengadvqaangdffkktkgrpgfyfgeplslaactn

261 qlgivkflgnswqpadisardsvgnvlhalveadntkfvtmyneilgaklhptkleelinkkgltplalaassgkigvlayilqreihepecrylsrkftewaygpvhsslydlscidt
261 qlgivkflgnswqpadisardsvgnvlhalveadntkfvtmyneilgaklhptkleelinkkgltplalaassgkigvlayilqreihepecrhlslrkftewaygpvhsslydlscidt

391 ceknsvleviayssnetpnrhdm1lveplnrllqdwdrfvkriyfnfvyclymiiifttvayrpveglppkvkhtvgdyfrvigeilsvlggvffffrgiqyflqrirpslkslfvdsyseiffvg
391 ceknsvleviayssnetpnrhdm1lveplnrllqdwdrfvkriyfnfvyclymiiifttvayrpveglppkvkhtvgdyfrvigeilsvlggvffffrgiqyflqrirpslkslfvdsyseiffvg

521 slfmlgtvvlyfcqcckeyvasmvfslamgwttnmlyytrgfqmglyavmiekmlirldlcrfmfylyflfgfstaavtliedgkndsvstettphwrgpcyrsdpssynslystclelfkftigmgle
521 slfmlgtvvlyfcqcckeyvasmvfslamgwttnmlyytrgfqmglyavmiekmlirldlcrfmfylyflfgfstaavtliedgkndsvstettphwrgpcyrsdpssynslystclelfkftigmgle

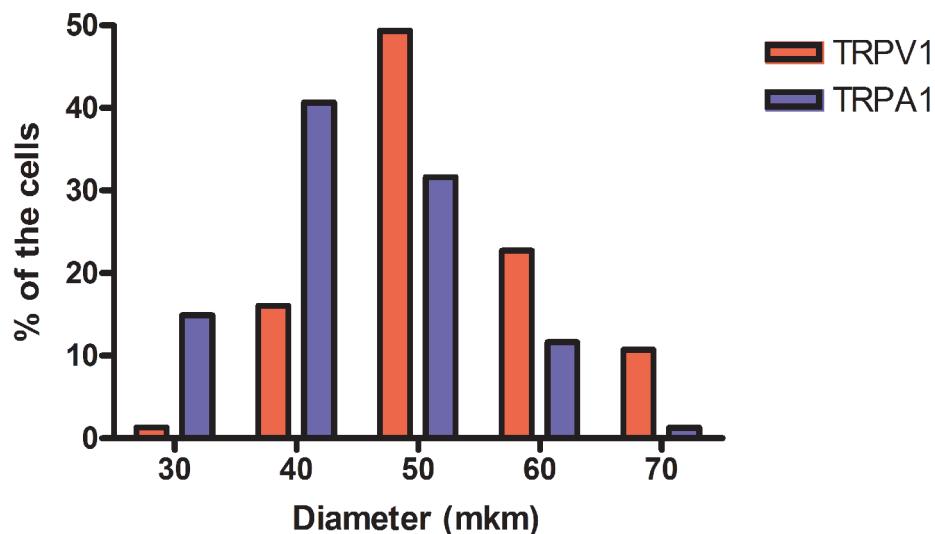
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781 ssrvagrnwnkfalvpllrdastrergpaapeevh1khfsgslkpedaxvfkdsaalgesekgestv
781 ssrvagrnwnkfalvpllrdastrergpaapeevh1khfsgslkpedaevfkdpaa-----
```

Top: Vampire bat (*Desmodus rotundus*) TRPV1-L
Bottom: Fruit bat (*Carollia brevicauda*) TRPV1-L

Supplementary Figure 2

Protein sequence alignment for vampire bat (*Desmodus rotundus*, top) and fruit bat (*Carollia brevicauda*, bottom) TRPV1-L isoforms.



Supplementary Figure 3

Neuronal size distribution of TRPV1-positive and TRPA1-positive neurons in trigeminal ganglia of vampire bats detected by *in situ* hybridization histochemistry of frozen tissue sections.

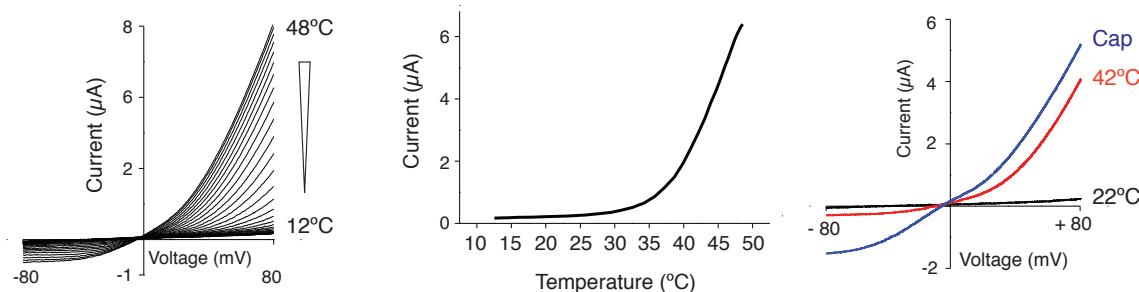
TRPV1	Q₁₀	Q₁₀	Temperature threshold (°C)
Vampire bat (Short)	5.1 ± 0.8	1.4 ± 0.1	31.2 ± 1.5
Vampire bat (Long)	11.5 ± 1.2	1.6 ± 0.1	40.2 ± 0.7
Short:Long (1:1)	5.7 ± 1.3	1.4 ± 0.1	33.9 ± 1.2
Zebrafish	4.6 ± 0.5	1.4 ± 0.1	32.9 ± 1.2
Fruit bat (Short)	5.1 ± 1.2	1.4 ± 0.3	30.8 ± 2
Fruit bat (Long)	9.9 ± 1.4	1.5 ± 0.2	40 ± 0.5
Cow (Long)	16 ± 1.7	1.6 ± 0.3	40.5 ± 0.6
Mole (Short)	4.4 ± 0.5	1.5 ± 0.3	31.3 ± 1.1
Mole (Long)	7.5 ± 0.6	1.7 ± 0.2	38.3 ± 0.9
Rat	21.7 ± 1.1	1.3 ± 0.1	42.3 ± 1.2

Supplementary Figure 4

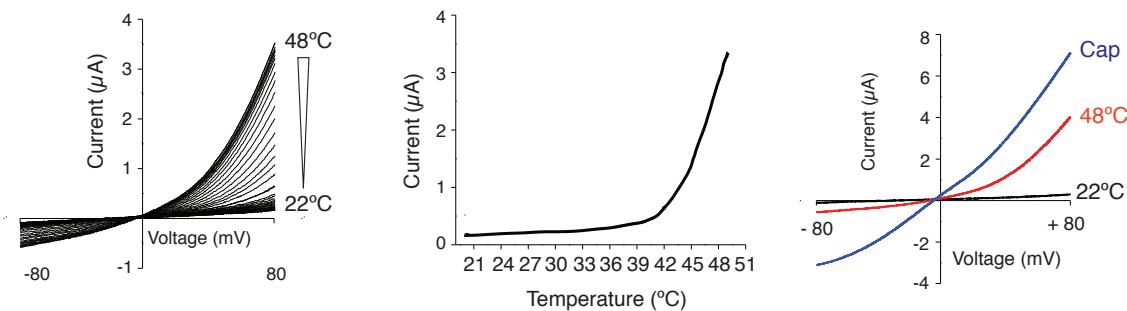
Thermal properties of cloned TRPV1 channels

TRPV1 cDNAs expressing short or long channel isoforms from various organisms (as indicated) were expressed in oocytes and subjected to temperature ramps while recording membrane currents in two-electrode voltage-clamp mode ($V_h = -80$ mV). Temperature coefficient (Q_{10}) for baseline and steepest component of the heat-evoked current and activation thresholds were derived from Arrhenius plots, as described in Methods.

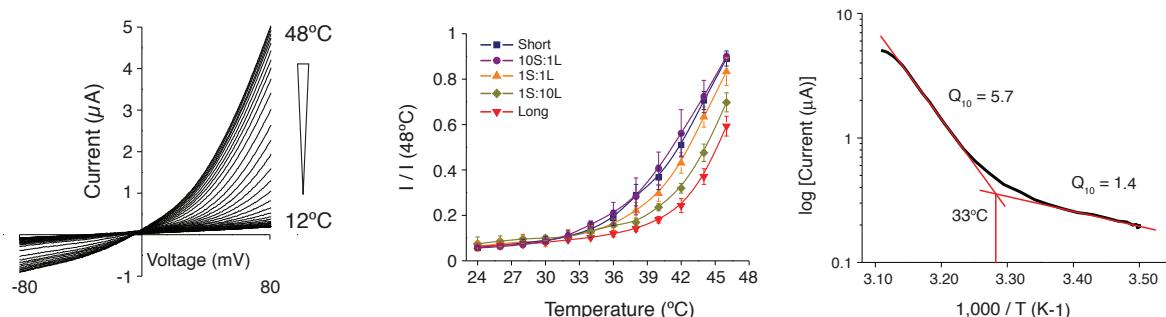
Vampire bat TRPV1-S isoform



Vampire bat TRPV1-L isoform



Vampire bat TRPV1-S:TRPV1-L = 1:1

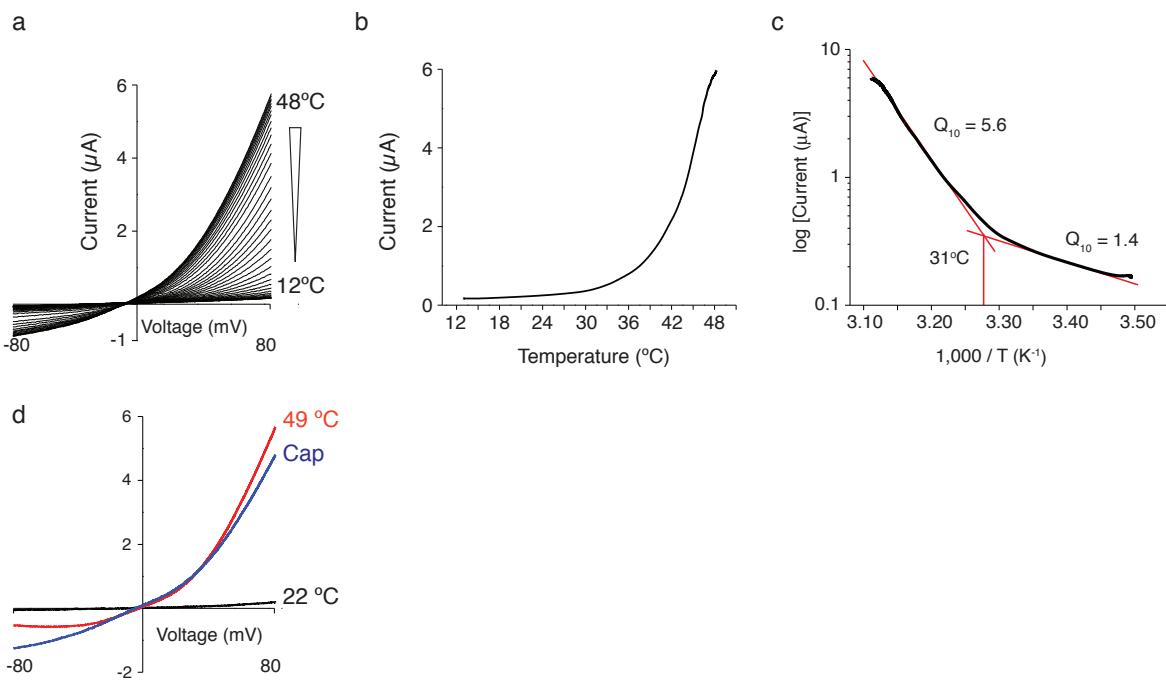


Supplementary Figure 5

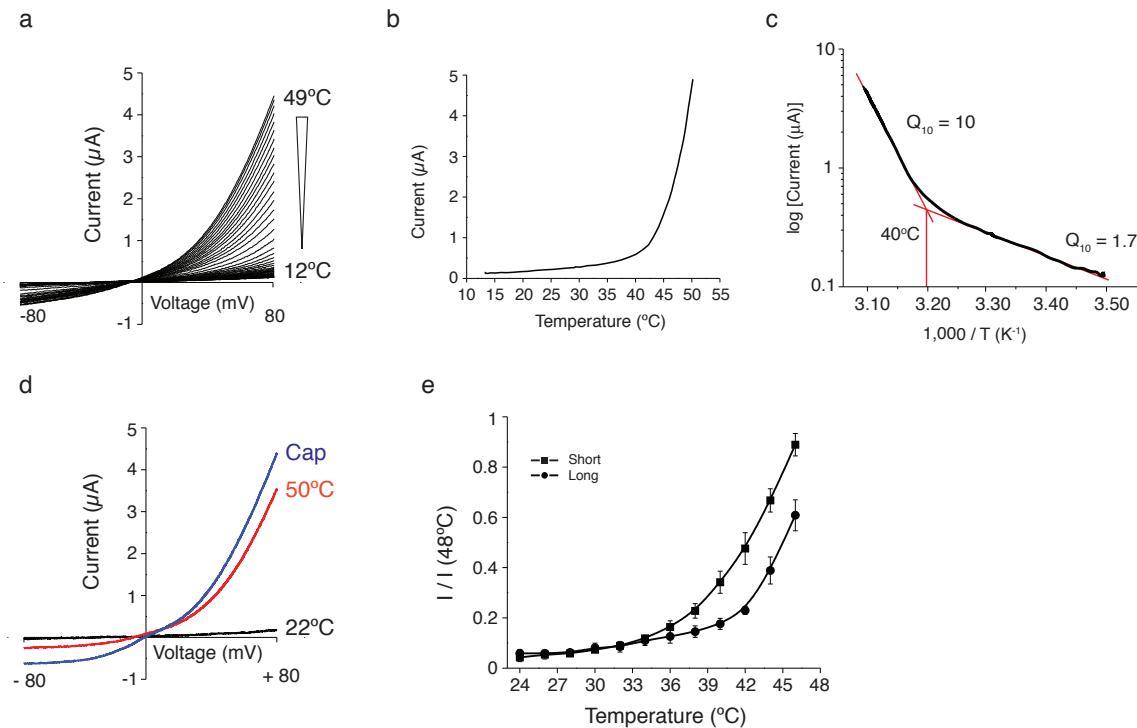
Functional analysis of vampire bat TRPV1 channel isoforms

Data are shown for oocytes expressing vampire bat (*D. rotundus*) TRPV1-S, TRPV1-L, or both, as indicated. In each case, left panel shows representative current-voltage relationships for heat-evoked responses during temperature ramp; middle panel shows temperature-response relationship; right panel shows representative current-voltage relationships for heat and capsaicin (10 μM)-evoked responses, or Arrhenius plot showing thermal threshold and Q₁₀ values for baseline and evoked responses. All data were collected in two-electrode voltage-clamp mode (V_h = -80 mV).

Fruit bat TRPV1-S isoform



Fruit bat TRPV1-L isoform



Supplementary Figure 6

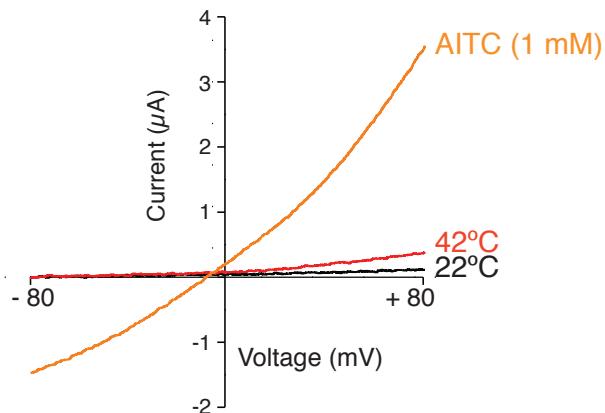
Functional analysis of fruit bat TRPV1 channel isoforms

Data are shown for oocytes expressing fruit bat (*C. brevicauda*) TRPV1-S, TRPV1-L, or both, as indicated. In each case, panel **a** shows representative current-voltage

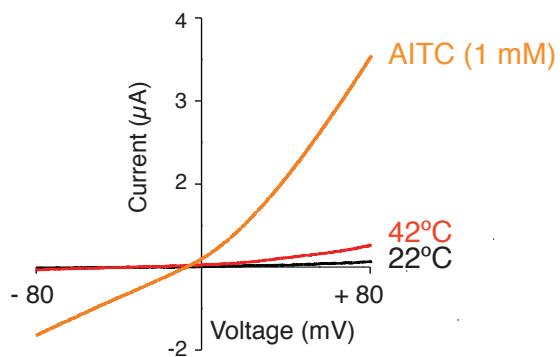
relationships for heat-evoked responses during temperature ramp; panel **b** shows temperature-response relationship; panel **c** shows Arrhenius plot showing thermal threshold and Q_{10} values for baseline and evoked responses; panel **d** shows representative current-voltage relationships for heat and capsaicin (10 μ M)-evoked responses; panel **e** compares average temperature-response relationships for short and long TRPV1 isoforms.

All data were collected in two-electrode voltage-clamp mode ($V_h = -80$ mV).

Vampire bat TRPA1



Fruit bat TRPA1



Supplementary Figure 7

Functional analysis of vampire and fruit bat TRPA1 channels

Thermal and chemical sensitivities of cloned vampire (*D. rotundus*) and fruit (*C. brevicauda*) bat TRPA1 channels, as indicated. Current-voltage relationships were determined by two-electrode voltage clamp recording of TRPA1-expressing oocytes challenged with heat (42°C) or AITC (1 mM).

a

```

TRPV1-S 2200 cctgatggcaaggatgactacaggtgggtttcagggtgatgaggtgaactggaccacctggaaacacccaacgtggcatcatcaacgaagacccaggcaattgtgaaggcatcaagcgacccctgagct
TRPV1-L 2200 cctgatggcaaggatgactacaggtgggtttcagggtgatgaggtgaactggaccacctggaaacacccaacgtggcatcatcaacgaagacccaggcaattgtgaaggcatcaagcgacccctgagct

2330 ttcgcgttgcggtaaaggcagcgtttactaagatgtactttagtgcaggagaaaacttggaaactttgcctggttccactttaaagatgcgaaactcgagaaaggcagcctgctcagcgt
2330 ttcgcgttgcggtaaaggcag-----agtgcaggagaaaacttggaaactttgcctggttccactttaaagatgcgaaactcgagaaaggcagcctgctcagcgt

```

b

```

vb-TRPV1-S tgccgtcaaggcag---cagtttacta-----agatgtactt-----agtgcaggagaaaacttggaaactttgcctggttccactttaaagatgc
vb-TRPV1-L tgccgtcaaggcag-----agatgtactt-----agtgcaggagaaaacttggaaactttgcctggttccactttaaagatgc
cow-TRPV1-XL tgccgtcaaggccaggcaggcaggcaggagggaaagttgggacagaggccctgggagaaccactaccagaaccgttgcaggaggaaacttgcctggttccctttaagagacgc
cow-TRPV1-L tgccgtcaaggccg-----agttgcaggaggaaacttggaaactttgcctggttccctttaagagacgc

aagcactcgagaaaggcaccctgtccagcctgaggaggttcatctga
aagcactcgagaaaggcaccctgtccagcctgaggaggttcatctga
aagtactcgagaaaggcaccctgtccagcctgaggaggttcatctga
aagtactcgagaaaggcaccctgtccagcctgaggaggttcatctga

```

c

```

cow-TRPV1-L 769 krtlsfsrlssr-----vagrwnkfnalvpplrdastrerhpaqpeevhrlrhftgslkpediaiindsvalgek
cow-TRPV1-XL 769 krtlsfsrlssrgrqrreeweqrspaenhyqkpvagrnwknfalvpplrdastrerhpaqpeevhrlrhftgslkpediaiindsvalgek

```

Supplementary Figure 8

Genomic organization of TRPV1 gene locus in bats and cows

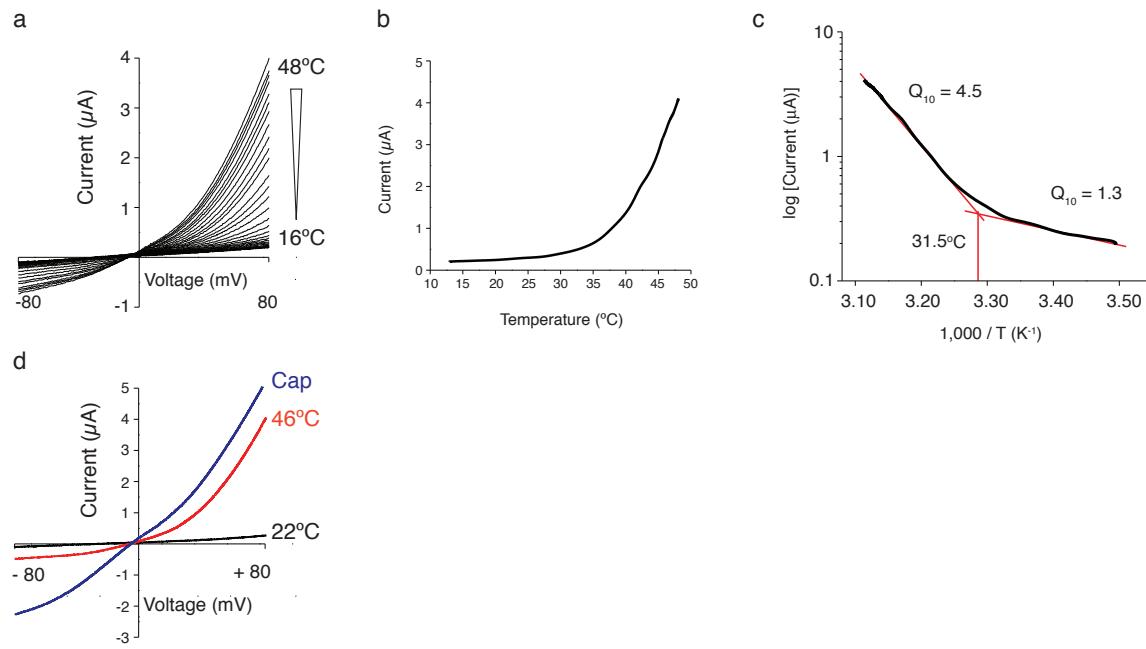
a, Partial cDNA sequence alignment of short (TRPV1-S) and long (TRPV1-L) vampire bat isoforms showing the presence of exon 14a-derived insert in the former. **b**, Partial sequence alignment between cow and bat TRPV1 cDNAs corresponding to regions encoded by exons 14 and 15, demonstrating conserved splice junctions in these species. **c**, Alignment of deduced amino acid sequences for large (TRPV1-L) and extra large (TRPV1-XL) TRPV1 isoforms from cow.

Desmodus rotundus	TCTTTTCATT--TTTGGTTTTCAGCAGTTGACTAAGATGTACTTAGGTA	2154
Carollia brevicauda	TCTTTTCATT--TTTGGTTTTCAGCAGTTGACTAAGATGTGCTTAGGTA	2398
Pteropus vampyrus	-----ATTGATA-----TTAGG--	1039
Pteropus rodricensis	-----ATTGATA-----TTAGG--	1039
Rousettus aegyptiacus	-----ATTGATA-----TTAGG--	1037
Bos taurus	TCTCTTCATCTTTTGTTTCAGCAGTTGACTAAAACGTGCTTAGGTA	3101
Equus caballus	-----TTCAGTAGTTGACTGAGATGTGCTCAGGTA	1186
Sus scrofa	TCTCTTCATC--TTTGGTTTTCAGCAGTTGACTAAGA-AAACTTAGGGG	2300
Canis familiaris	TCTCTTCATT--TTTGGTTTTCAGCAGT---CTAAATGTACTTAGGTT	2958
Scapanus orarius	-----	1465

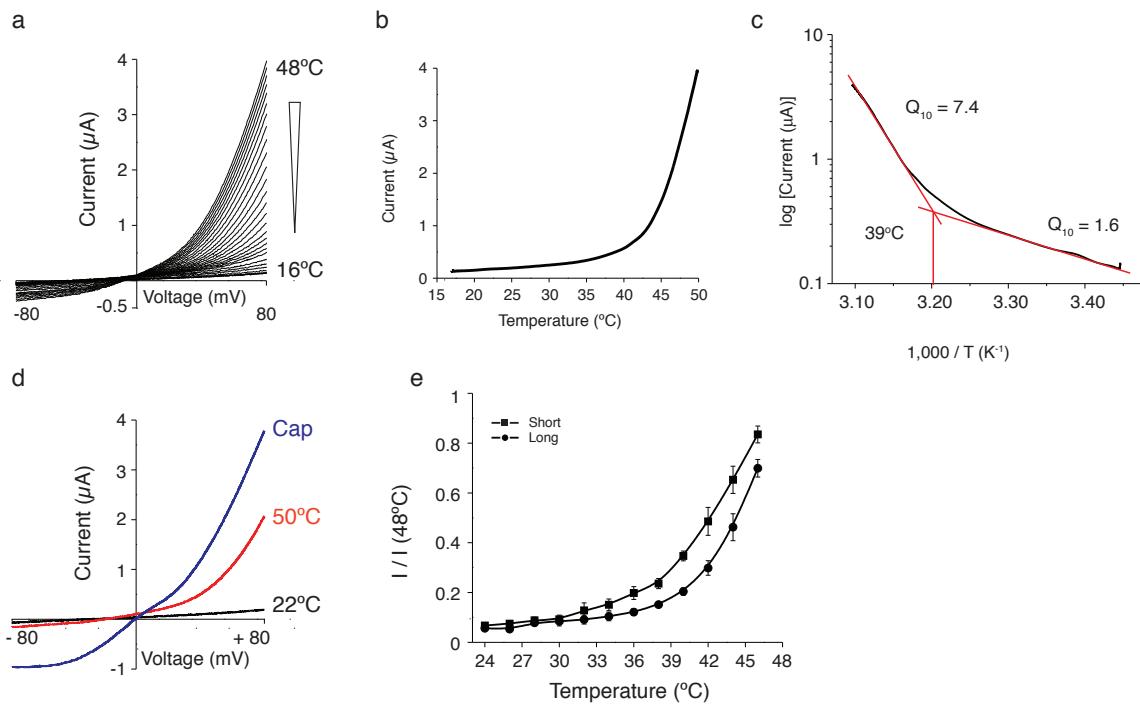
Supplementary Figure 9

Alignment of exon 14a from microbats with intronic region of other mammals

The region encoding exon 14a in vampire (*D. rotundus*) and fruit (*C. brevicauda*) bats is highlighted. Splice acceptor (-AG-) and donor (-GT-) sites are highlighted in green and grey, respectively. Numbers at right indicate relative distance from exon 14 (position 1 corresponds to 12 nucleotides from the end of exon 14 in all species shown). Dashes indicate regions of non-identity.



Coast mole TRPV1-L isoform

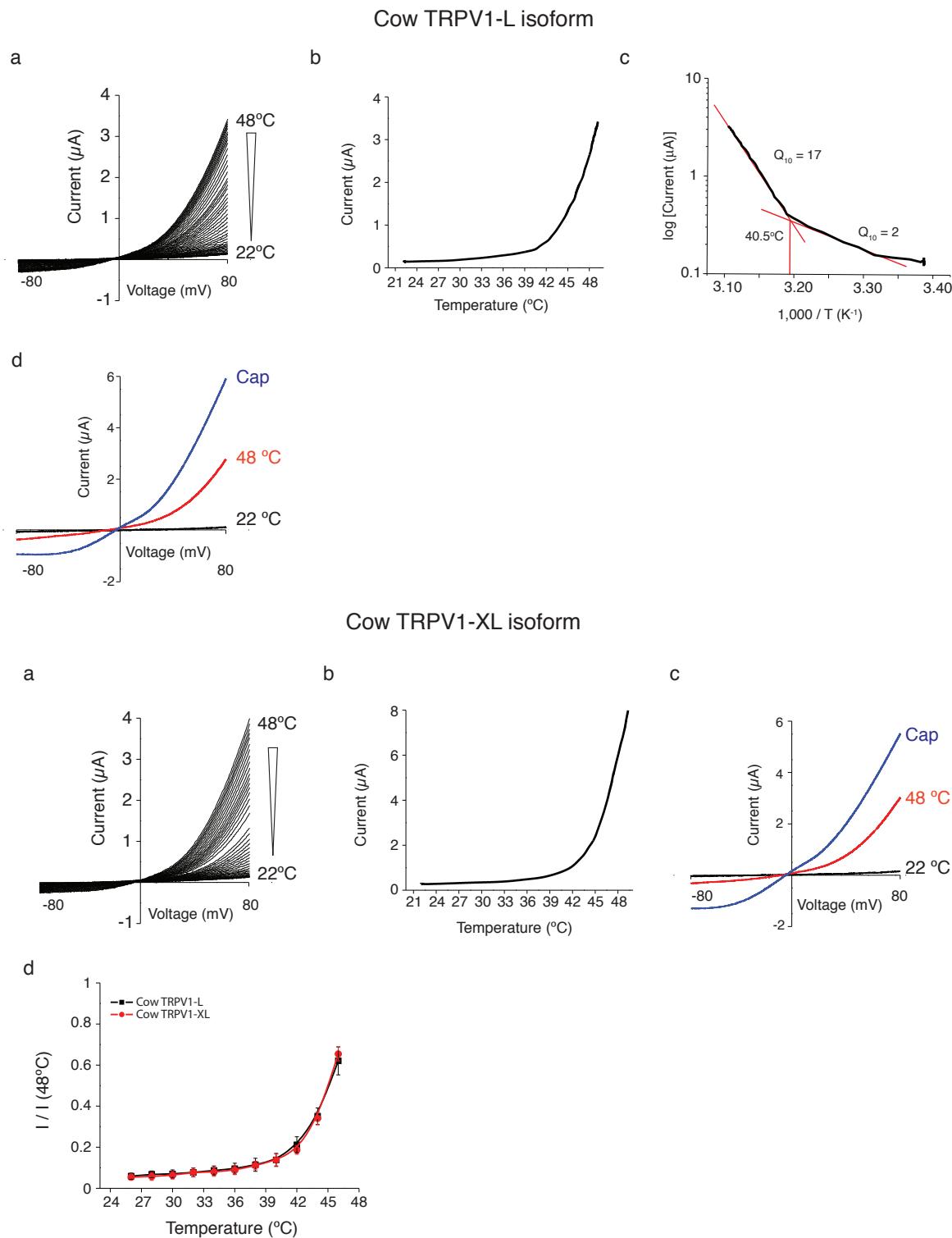


Supplementary Figure 10

Functional analysis of Coast mole TRPV1 channel isoforms

Data are shown for oocytes expressing Coast mole (*Scapanus orarius*) TRPV1-S or TRPV1-L isoforms, as indicated. In each case, panel **a** shows representative current-

voltage relationships for heat-evoked responses during temperature ramp; panel **b** shows temperature-response relationship; panel **c** shows Arrhenius plot showing thermal threshold and Q_{10} values for baseline and evoked responses; panel **d** shows representative current-voltage relationships for heat and capsaicin (10 μ M)-evoked responses. Panel **e** in bottom group compares average temperature-response relationships for short and long TRPV1 isoforms. All data were collected in two-electrode voltage-clamp mode ($V_h = -80$ mV).

**Supplementary Figure 11****Functional analysis of bovine TRPV1 channel isoforms**

Data are shown for oocytes expressing cow (*Bos taurus*) TRPV1-L or TRPV1-XL isoforms, as indicated. For TRPV1-L, panel a shows representative current-voltage

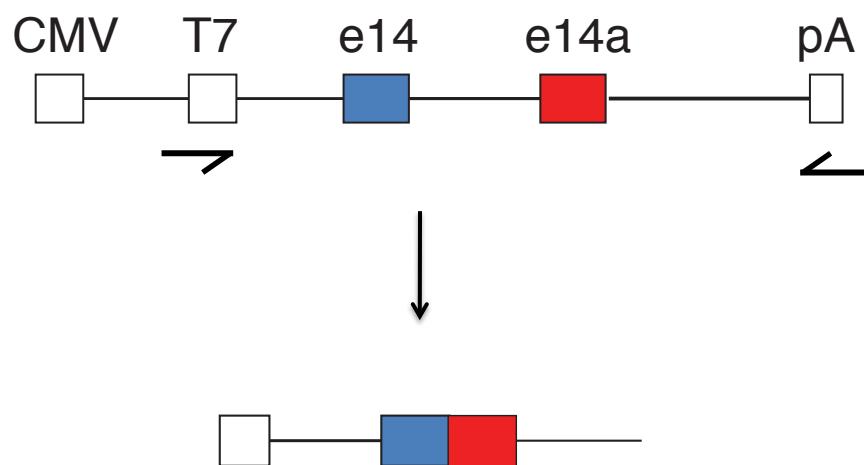
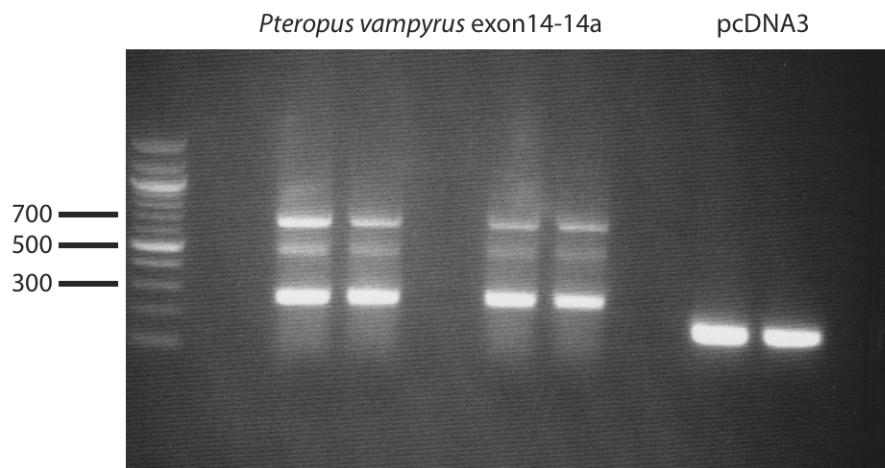
relationships for heat-evoked responses during temperature ramp; panel **b** shows temperature-response relationship; panel **c** shows Arrhenius plot showing thermal threshold and Q_{10} values for baseline and evoked responses; panel **d** shows representative current-voltage relationships for heat and capsaicin (10 μM)-evoked responses. For TRPV1-XL panel panel **a** shows representative current-voltage relationships for heat-evoked responses during temperature ramp; panel **b** shows temperature-response relationship; panel **c** shows representative current-voltage relationships for heat and capsaicin (10 μM)-evoked responses; panel **d** compares average temperature-response relationships for short and long TRPV1 isoforms. All data were collected in two-electrode voltage-clamp mode ($V_h = -80$ mV).

Desmodus rotundus	-----GGCAGGCACAGGAGGGAAAGGACAGGAAGGTGAAAGGGTACACCTT	452
Carollia brevicauda	-----GGCAGGTACAGGGAGTTAAGAACCGAAAAGGTAAAGGGTACACCTT	454
Pteropus vampyrus	--CCAGGTAGGCCAGAGGGAGGGAGGAATGGGA-CAGTAAGGGTACACCTT	466
Pteropus rodricensis	--CCAGGTAGGCCAGAGGGAGGGAGGAATGGGA-CAGTAAGGGTAAACCTT	466
Rousettus aegyptiacus	--CCAGGTAGGCCAGAGGGAGCAATGGGA-GAGTAAGGGTACACCTT	465
Bos taurus	-----TTCACACCGCAG GCAGC -AGAGGAAGGAAGACT----- GG	354
Equus caballus	AGCCAGGCAGGGAGAGGGAGGAATGGACGAGTAAGGGTACATCTT	477
Sus scrofa	-----GTGCGAGGGAGGGAGGGAGGGCAAGGGTACACCTT	374
Canis familiaris	---ATCCAGCTGGCAGA-GGAAGAATGGGAAGAGTAACGAGTATATCAT	473
Scapanus orarius	-GTCTGGTAGGGAGAGGGAGGAAGGTGGGAGGAGAGGGTACATCTG	469
Desmodus rotundus	-GAGCAGAAAAAGCCCCTGCAGAAAATCACTACCAAGAAAAA-AAGTCCTTAA	500
Carollia brevicauda	-GAGCAGAAAACCCCTGCAGAAGTCACTACCAAGAAA-AAGTGTCTTAA	502
Pteropus vampyrus	-GAGTGAAGAAGTCCCTGCAGAAAATCACTACCAAGAAAAAAGTCCTTAC	515
Pteropus rodricensis	-GAGTGAAGAAGTCCCTGCAGAAAATCACTACCAAGAAAAAAGTCCTTAC	515
Rousettus aegyptiacus	-GAGTGGAAAATGCTCTGCAGAAAATCACTACCAAGAAAAAAGTCCTTAC	514
Bos taurus	GAGCAGAGGAGCCCTGGGGAGACCACTACCAAGAAAACAGCTCTTAA	403
Equus caballus	-GGACAGAACAGCCCTGCAGAAAATCACTACGCAAGAAAAGCCTTG-	525
Sus scrofa	-GAACCAGAACAGCCCTGCAGAAAATCACTACCAAGAAAAGTCCTTAC	420
Canis familiaris	AAAGCAGAAATGCTCTGCAGAAAATCACTACCAAGAAAAGTCCTTAC	523
Scapanus orarius	-GAGCAGAACAGTCTGAGGAAAATCACTAGTGGAAAG-AAGTCCTTGA	517
Desmodus_rotundus	TTTTAAG-CTT-TATT-----ATGGTAGATCTG-TGGACACTCC	3015
Carollia_brevicauda	TTTTAAG-CTT- TT -----ATGGTAGATCTG-TGGACACTCC	3257
Pteropus_vampyrus	TTTTAAC-CTT-TATT-----ATGGTAGATCTG-TAGACACTAC	1745
Pteropus_rodricensis	TTTTAAC-CTT-TATT-----ATGGTAGATCTG-TAGACACTAC	1745
Rousettus_aegyptiacus	TTTTAAC-CTT-TATT-----ATGGTAGATCTG-TGGACACTAC	1747
Bos_taurus	CTTTAGC- ATTTAATT -----ATGGTAGATCTGT-GGAATGTC	3918
Equus_caballus	TTTTAAA-CTT-TATT-----ATGATAGATCTGT-GGAATGCC	1921
Sus_scrofa	TTTTAAA-GTT-TATT-----TTAGTAGATATGT-GGAATGCC	3008
Canis_familiaris	TTTTAAA-CTT-TATT-----ATGGTAGATATG-TG-AAATGCC	3887
Scapanus_orarius	TTTTTATATTT-CATCAACTGATTATTTATTTTATTTTG-AGAACAG	2137
Desmodus_rotundus	AAGGT----ATTGCTAATCCATAAAACATTGT---GGGACTCAGCC---	3055
Carollia_brevicauda	AAGGT----ATTGCTGATCCATAAAACATTGT---GGGACTCAGCC---	3297
Pteropus_vampyrus	AAGAT----ATTGTCATCTCATCAAACATTGT---GGGATTTCAGCC---	1785
Pteropus_rodricensis	AAGAT----ATTGTCATCTCATCAAACATTGT---GGGATTTCAGCC---	1785
Rousettus_aegyptiacus	AAGAT----ATTGTCATCTCATCAAACATTGT---GGGATTTCAGCC---	1787
Bos_taurus	AAGAT----ATTGTCATCTCATCAAACATTGT---GGGACTCAACC---	3958
Equus_caballus	GAGGT----GTTTACCAATCCCATCAAACATTGT---GGGATTCAACC---	1961
Sus_scrofa	AAGGT----ATTAGCCAATCCCATCAAAC-----TCAACC---	3039
Canis_familiaris	AAAGT----ATTGCCAATCCCATAAAACATTGT---GGGACTCAACC---	3927
Scapanus_orarius	AAAAGCGGGATTAT-----TGAAGATACTGCTAAGAGAACCGAGGGCG	2183
■		
Desmodus_rotundus	GTGAGTCITGAG-T-AGTGCTTACTCTA-GG-----TTATGTAGAGTA-	3147
Carollia_brevicauda	GTGAGTCITGAG-T-AGGCCCTACTCTA-GG-----TTATGTAGAGTA-	3389
Pteropus_vampyrus	TGGGGTCTTAAG-TAAACCTTACCCCTA-GG-----GCATGCAAAGTA-	1878
Pteropus_rodricensis	TGGGGTCTTAAG-TAAACCTTACCCCTA-GG-----GCATGCAAAGTA-	1878
Rousettus_aegyptiacus	GTGGGTATTAAAG-TAAACCTTACCCCTA-GG-----GCATGCAAAGTA-	1880
Bos_taurus	GTGGGTCTTGAG-TAGACCTTATTCTAG-T-----GTGTATAGAGTA-	4189
Equus_caballus	GTGGGTCTTGAG-TAGACCTTATTCTAG-G-----GC-TGTAGAGTA-	2055
Sus_scrofa	GTGGATCTTGAG-TAGCTTGTCTCTAG-T-----GCTTATAGAGTA-	3134
Canis_familiaris	GTGGGTCCCTCA-T-AGACCTTACTATA-GG-----TACATAGAGTA-	4021
Scapanus_orarius	AACTTTATTAAGAT-ATAACTTACTACAAAAACACACATTTAAATGTA	2293
Desmodus_rotundus	-CGTGGGGGC-ATTTCTGGTAT-T-TTA-----GCTTAAT-----	3178
Carollia_brevicauda	-CGTGG-GGC-ATTTCTGGTAT-T-TTA-----GCTTAAT-----	3419
Pteropus_vampyrus	-AGTAG-GGC-ATTTTTAGTAT-T-TTG-----TCTAGATCC-----	1910
Pteropus_rodricensis	-AGTAG-GGC-ATTTTTAGTAT-T-TTG-----TCTAGATCC-----	1910
Rousettus_aegyptiacus	-AGTAG-GGC-ATTTTTAGTAT-T-TTA-----GCTAGATCC-----	1912
Bos_taurus	-AGCAG-GGC-ATTTCTGGTAT-T-TTA-----GCTTGTGATCC-----	4221
Equus_caballus	-AGGAG-GGC-ATTTCTGGGT-C-TCA-----GTTTGATCC-----	2087
Sus_scrofa	-AGTAG-TG-ATTTCTGTATGTT-----ACTTGGTTC-----	3166
Canis_familiaris	-AGTAG-GGC-ATTTCTGGTAT-TTTA-----GCCTGATC-----C	4054
Scapanus_orarius	TAGTTT-GGTAAGTTTCAGCAAATATACTCAGGTAAACCTCCATCTCA	2342

Supplementary Figure 12

Alignment of exon 14a from cows and moles with intronic region of other mammals

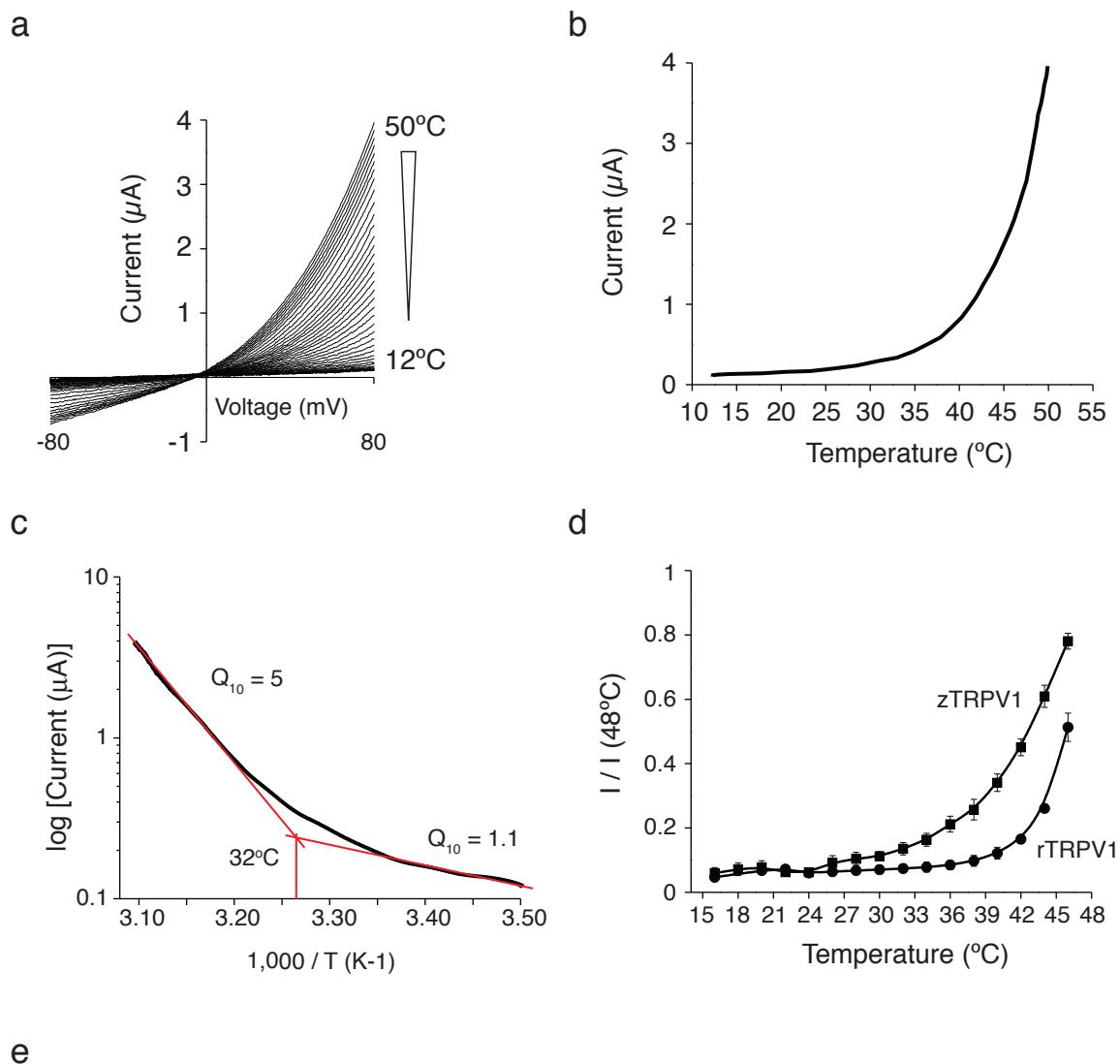
The region encoding exon 14a in cow (*Bos taurus*; panel a) and Coast moles (*Scapanus orarius*; panel b) is highlighted. Splice acceptor (-AG-) and donor (-GT-) sites are highlighted in green and grey, respectively. Numbers at right indicate relative distance from exon 14 (position 1 corresponds to 12 nucleotides from the end of exon 14 in all species shown). Dashes indicate regions of non-identity.



Supplementary Figure 13

In vivo splicing assay suggests presence of TRPV1 exon 14a in megabats

Diagram shows structure of mini-gene used for in vivo splicing assay in HEK293 cells, indicating location of CMV promoter and polyadenylation site (pA), defining the start and end of the transcribed unit. Transcripts were reverse transcribed using oligo-dT in combination with a primer annealing to T7 promoter to amplify reverse transcripts. Reaction products were resolved on 1.5% agarose gel (shown above with samples run in quadruplicate), and major bands collected for sequencing. Control reaction with vector (pcDNA3) is shown at right. Schematic of major splice product (~300 bp) is shown at bottom.



Supplementary Figure 14

Functional characterization and sequence analysis of zebrafish TRPV1

a-b, Representative current-voltage and temperature-response relationships for zebrafish TRPV1 channels expressed in oocytes. **c**, Arrhenius plot showing thermal threshold and Q_{10} values for baseline and evoked responses. **d**, Relative heat response profiles of zebrafish and rat TRPV1 channels expressed in oocytes (holding potential (V_h) = -80 mV; $n \geq 5$; mean \pm s.d.). **e**, Alignment of deduced amino acid sequences for C-terminal domain of rat TRPV1, vampire bat TRPV1-S, and zebrafish TRPV1 channels.

Global coordinates for bat collection

Sampling Point	Latitude (N)	Longitude (E)	Meridian
1	987682	600729	19
2	990981	601590	19
3	989922	605086	19
4	986630	604268	19
5	983530	605045	19

Summary of species examined

Species	Transcriptome	Genomic (experimental)	Genomic (database)
<i>Desmodus rotundus</i> (vampire bat) (n = 4)	X	X	
<i>Carollia brevicauda</i> (microbat) (n = 6)	X	X	
<i>Anoura cultrata</i> (microbat) (n = 1)	X		
<i>Uroderma bilobatum</i> (microbat) (n = 1)	X		
<i>Sturnira lilium</i> (microbat) (n = 1)	X	X	
<i>Pteropus vampyrus</i> (megabat) (n = 1)		X	
<i>Pteropus rodricensis</i> (megabat) (n = 1)		X	
<i>Rousettus aegyptiacus</i> (megabat) (n = 1)		X	
<i>Scapanus orarius</i> (coast mole) (n = 1)	X	X	
<i>Bos taurus</i> (cow) (n = 1)	X		X
<i>Canis lupus</i> (dog)			X
<i>Sus scrofa</i> (pig)			X
<i>Mus musculus</i> (mouse) (n ≥ 6)	X		X
<i>Rattus norvegicus</i> (rat)			X
<i>Oryctolagus cuniculus</i> (rabbit)			X
<i>Loxodonta africana</i> (elephant)			X
<i>Homo sapiens</i> (human)			X
<i>Macaca mulatta</i> (macaque)			X

Supplementary Figure 15

Compendium of animals examined

Top table indicates global coordinates at which bat species were collected. Bottom table summarizes all species examined, either through analysis of tissue samples and/or bioinformatically. Where relevant, the number of individual animals examined for each species is indicated in parenthesis.