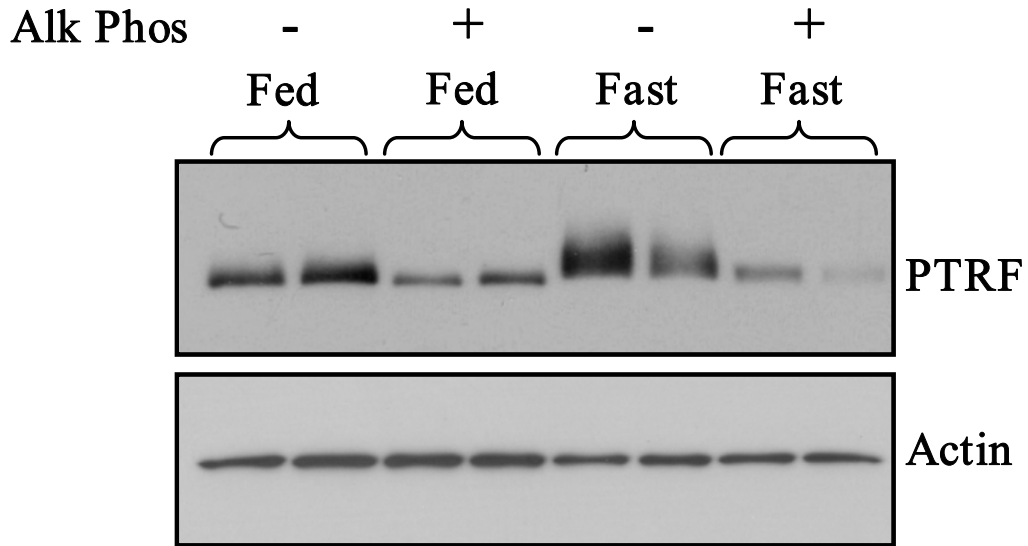
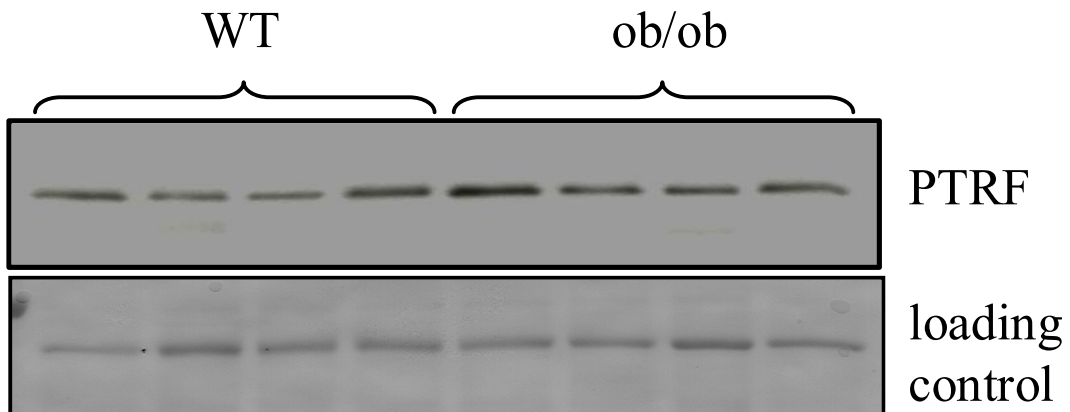


SUPPLEMENTARY DATA

**Supplementary Figure 1. Phosphorylation of PTRF in WAT in response to fasting.** Protein extracts from WAT of fed or 24h-fasted mice were treated with (+) or without (-) alkaline phosphatase (1 unit/ $\mu$ g protein) (Alk Phos). Proteins were subjected to SDS-PAGE and immunoblotting with PTRF and actin antibodies



**Supplementary Figure 2. Protein expression of PTRF in wild type and ob/ob mice.** Immunoblot of protein extracts from gonadal WAT of four age-matched wild type and four ob/ob mice using PTRF antibodies and Ponceau S staining as loading control.



SUPPLEMENTARY DATA

**Supplementary Table I. Basal and isoproterenol-stimulated glycerol release from 3T3-L1 adipocytes expressing GFP control, wild type PTRF, and PTRF phopsho-mutants.** Time course of basal (basal) and isoproterenol-stimulated (Iso) glycerol release (mg/ml glycerol/ mg protein). GFP control (GFP), wild type PTRF (PTRF), and phospho-mutants threonine 304 to alanine (T304A), serine 42 to alanine (S42A), serine 21 to alanine (S21A), and serine 368 to alanine (S368). Four replicates for each time point (1, 2, 4, and 6 hours) are shown in the first table. The average glycerol release for each time point with standard error is shown in the second table. SE, standard error.

<b>BASAL</b>	<b>1h</b>	<b>2h</b>	<b>4h</b>	<b>6h</b>
<b>GFP</b>	0.557	0.568	0.588	0.641
	0.518	0.539	0.609	0.656
	0.538	0.538	0.618	0.518
	0.485	0.515	0.606	0.636
<b>PTRF</b>	0.448	0.593	0.716	0.766
	0.470	0.418	0.452	0.495
	0.434	0.425	0.477	0.495
	0.429	0.447	0.518	0.536
<b>T304A</b>	0.474	0.505	0.545	0.606
	0.414	0.466	0.501	0.535
	0.461	0.509	0.547	0.624
	0.482	0.512	0.551	0.601
<b>S42A</b>	0.553	0.576	0.668	0.691
	0.466	0.495	0.544	0.602
	0.434	0.452	0.515	0.560
	0.463	0.502	0.531	0.589
<b>S21A</b>	0.478	0.421	0.593	0.651
	0.515	0.536	0.301	0.665
	0.533	0.587	0.587	0.653
	0.534	0.449	0.494	0.488
<b>S368A</b>	0.406	0.423	0.501	0.527
	0.414	0.432	0.501	0.527
	0.354	0.376	0.604	0.441
	0.386	0.394	0.856	0.518

<b>Basal 1h</b>	<b>GFP</b>	<b>PTRF</b>	<b>T304A</b>	<b>S42A</b>	<b>S21A</b>	<b>S368A</b>
<b>Average</b>	0.524	0.445	0.458	0.479	0.515	0.390
<b>SE</b>	0.01784	0.01052	0.01753	0.02971	0.01515	0.01547
<b>Basal 2h</b>						
<b>Average</b>	0.540	0.471	0.498	0.506	0.498	0.406
<b>SE</b>	0.01245	0.04748	0.01228	0.02979	0.04444	0.01494
<b>Basal 4h</b>						
<b>Average</b>	0.605	0.541	0.536	0.565	0.494	0.615
<b>SE</b>	0.00712	0.06923	0.01364	0.04050	0.07883	0.09678
<b>Basal 6h</b>						
<b>Average</b>	0.613	0.573	0.591	0.611	0.614	0.503
<b>SE</b>	0.03681	0.07504	0.02232	0.03266	0.02409	0.02409

SUPPLEMENTARY DATA

<b>ISO</b>	<b>1h</b>	<b>2h</b>	<b>4h</b>	<b>6h</b>
<b>GFP</b>	0.807	1.328	2.023	3.247
	0.820	1.434	2.501	3.671
	0.834	1.602	2.464	3.753
	0.729	1.238	2.107	3.143
<b>PTRF</b>	0.969	1.716	4.109	4.785
	1.065	1.867	3.243	5.003
	1.010	1.822	3.169	4.693
	0.893	1.611	3.025	4.429
<b>T304A</b>	0.647	1.167	2.074	2.923
	0.707	1.192	2.098	3.194
	0.672	1.238	2.133	3.204
	0.759	1.362	2.258	3.090
<b>S42A</b>	0.750	1.271	2.207	3.620
	0.721	1.322	2.232	3.657
	0.853	1.536	2.605	4.438
	0.803	1.463	2.469	3.719
<b>S21A</b>	1.020	1.897	2.799	4.473
	0.842	1.471	2.507	4.941
	0.944	1.688	3.204	4.825
	1.036	2.053	3.448	5.222
<b>S368A</b>	0.739	1.313	2.451	3.855
	0.848	1.660	2.569	4.061
	0.735	1.326	2.288	3.576
	0.674	1.275	2.300	3.546

<b>ISO 1h</b>	<b>GFP</b>	<b>PTRF</b>	<b>T304A</b>	<b>S42A</b>	<b>S21A</b>	<b>S368A</b>
<b>Average</b>	0.797	0.984	0.696	0.782	0.961	0.749
<b>SE</b>	0.02719	0.04197	0.02806	0.03371	0.05129	0.04169
<b>ISO 2h</b>						
<b>Average</b>	1.401	1.754	1.240	1.398	1.777	1.393
<b>SE</b>	0.09026	0.06594	0.04996	0.07081	0.14607	0.10338
<b>ISO 4h</b>						
<b>Average</b>	2.274	3.386	2.140	2.378	2.990	2.402
<b>SE</b>	0.14101	0.28300	0.04722	0.11072	0.24160	0.07725
<b>ISO 6h</b>						
<b>Average</b>	3.453	4.728	3.103	3.858	4.865	3.760
<b>SE</b>	0.17523	0.13704	0.05423	0.22415	0.14129	0.14129