## **Search Sentra**

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The status of Sentra is under review, until the next version is available, the current code and data will not be updated.

If there is any data here that you wish to preserve, you are responsible for downloading it. An overview of the bioinformatics research being conducted at the Mathematics and Computer Science Division is available at <u>this page</u>.

## The following 202 genomes have been curated by Michael Galperin from NCBI.

А	Annotations for Desulfovibrio vulgaris subsp. vulgaris str. Hildenborough							
NCBI gi #	Туре	Category	NCBI Acc. Ver.	UniProt ID	Additional annotation			
<u>46580007</u>	Response regulator	CheB-type	<u>YP_010815.1</u>	<u>P62636</u>				
<u>46580483</u>	Response regulator	CheB-type	<u>YP_011291.1</u>	<u>P62637</u>				
<u>46578473</u>	Response regulator	CheV-type	<u>YP_009281.1</u>	<u>Q72G07</u>				
<u>46579066</u>	Response regulator	CheV-type	<u>YP_009874.1</u>	<u>Q72EC6</u>				
<u>46579405</u>	Response regulator	CheV-type	<u>YP_010213.1</u>	<u>Q72DD7</u>				
<u>46578865</u>	Response regulator	Hybrid HisK	<u>YP_009673.1</u>	<u>Q72EW9</u>	Hybrid histidine kinase with only C-terminal REC domain			
<u>46579036</u>	Response regulator	Hybrid HisK	<u>YP_009844.1</u>	<u>Q72EF6</u>	Hybrid histidine kinase with only C-terminal REC domain			
<u>46579974</u>	Response regulator	Hybrid HisK	<u>YP_010782.1</u>	<u>Q72BS1</u>	Hybrid histidine kinase with only C-terminal REC domain			
46580534	Response regulator	Hybrid HisK	<u>YP_011342.1</u>	<u>Q72A68</u>	Hybrid histidine kinase with only			

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					C-terminal REC domain
<u>46580686</u>	Response regulator	Hybrid HisK	<u>YP_011494.1</u>	<u>Q729R8</u>	Hybrid histidine kinase with only C-terminal REC domain
<u>46580984</u>	Response regulator	Hybrid HisK	<u>YP_011792.1</u>	<u>Q728M3</u>	Hybrid histidine kinase with only C-terminal REC domain
<u>46581020</u>	Response regulator	Hybrid HisK	<u>YP_011828.1</u>	<u>Q72817</u>	Hybrid histidine kinase with only C-terminal REC domain
<u>46581083</u>	Response regulator	Hybrid HisK	<u>YP_011891.1</u>	<u>Q728C4</u>	Hybrid histidine kinase with only C-terminal REC domain
<u>46581425</u>	Response regulator	Hybrid HisK	<u>YP_012233.1</u>	<u>Q726T4</u>	Hybrid histidine kinase with only C-terminal REC domain
<u>46581448</u>	Response regulator	Hybrid HisK	<u>YP_012256.1</u>	<u>Q726R1</u>	Hybrid histidine kinase with only C-terminal REC domain
<u>46581461</u>	Response regulator	Hybrid HisK	<u>YP_012269.1</u>	<u>Q726P8</u>	Hybrid histidine kinase with only C-terminal REC domain
<u>46581465</u>	Response regulator	Hybrid HisK	<u>YP_012273.1</u>	<u>Q726P4</u>	Hybrid histidine kinase with only C-terminal REC domain
<u>46581671</u>	Response regulator	Hybrid HisK	<u>YP_012479.1</u>	<u>Q726A4</u>	Hybrid histidine kinase with only C-terminal REC domain
<u>46579010</u>	Response regulator	LytR-type	<u>YP_009818.1</u>	<u>Q72EI2</u>	

<u>46579162</u>	Response regulator	LytR-type	<u>YP_009970.1</u>	<u>Q72E30</u>	
46562271	Response regulator	NarL-type	<u>YP_009177.1</u>	<u>Q72WF2</u>	
46580981	Response regulator	NarL-type	<u>YP_011789.1</u>	<u>Q728M6</u>	
46581079	Response regulator	NarL-type	<u>YP_011887.1</u>	<u>Q728C8</u>	
46562195	Response regulator	NtrC-type	<u>YP_009097.1</u>	<u>Q72WN2</u>	
46578527	Response regulator	NtrC-type	<u>YP_009335.1</u>	<u>Q72FV3</u>	
46578535	Response regulator	NtrC-type	<u>YP_009343.1</u>	<u>Q72FU5</u>	
46578674	Response regulator	NtrC-type	<u>YP_009482.1</u>	<u>Q72FF6</u>	
<u>46578954</u>	Response regulator	NtrC-type	<u>YP_009762.1</u>	<u>Q72EN8</u>	
<u>46579033</u>	Response regulator	NtrC-type	<u>YP_009841.1</u>	<u>Q72EF9</u>	Inactivated or truncated REC domains
<u>46579035</u>	Response regulator	NtrC-type	<u>YP_009843.1</u>	<u>Q72EF7</u>	
<u>46579067</u>	Response regulator	NtrC-type	<u>YP_009875.1</u>	<u>Q72EC5</u>	
<u>46579093</u>	Response regulator	NtrC-type	<u>YP_009901.1</u>	<u>Q72E99</u>	
<u>46579157</u>	Response regulator	NtrC-type	<u>YP_009965.1</u>	<u>Q72E35</u>	
<u>46579217</u>	Response regulator	NtrC-type	<u>YP_010025.1</u>	<u>Q72DX5</u>	
<u>46579359</u>	Response regulator	NtrC-type	<u>YP_010167.1</u>	<u>Q72DI3</u>	
<u>46579476</u>	Response regulator	NtrC-type	<u>YP_010284.1</u>	<u>Q72D66</u>	
<u>46579567</u>	Response regulator	NtrC-type	<u>YP_010375.1</u>	<u>Q72CX7</u>	

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<u>46579830</u>	Response regulator	NtrC-type	<u>YP_010638.1</u>	<u>Q72C65</u>	
46580519	Response regulator	NtrC-type	<u>YP_011327.1</u>	<u>Q72A83</u>	
<u>46580799</u>	Response regulator	NtrC-type	<u>YP_011607.1</u>	<u>Q729F7</u>	
<u>46581338</u>	Response regulator	NtrC-type	<u>YP_012146.1</u>	<u>Q727C1</u>	
<u>46581426</u>	Response regulator	NtrC-type	<u>YP_012234.1</u>	<u>Q726T3</u>	
46581622	Response regulator	NtrC-type	<u>YP_012430.1</u>	<u>Q725H6</u>	
46581705	Response regulator	NtrC-type	<u>YP_012513.1</u>	<u>Q725X0</u>	
46581734	Response regulator	NtrC-type	<u>YP_012542.1</u>	<u>Q725U1</u>	
46581782	Response regulator	NtrC-type	<u>YP_012590.1</u>	<u>Q725P3</u>	
<u>46579496</u>	Response regulator	OmpR-type	<u>YP_010304.1</u>	<u>Q72D47</u>	
46580992	Response regulator	OmpR-type	<u>YP_011800.1</u>	<u>Q728L5</u>	
46578995	Response regulator	Other	<u>YP_009803.1</u>	<u>Q72EJ7</u>	
<u>46579095</u>	Response regulator	Other	<u>YP_009903.1</u>	<u>Q72E97</u>	
<u>46579389</u>	Response regulator	Other	<u>YP_010197.1</u>	<u>Q72DF3</u>	
<u>46579696</u>	Response regulator	Other	<u>YP_010504.1</u>	<u>Q72CJ8</u>	
46580526	Response regulator	Other	<u>YP_011334.1</u>	<u>Q72A76</u>	
<u>46580982</u>	Response regulator	Other	<u>YP_011790.1</u>	<u>Q728M5</u>	
<u>46581704</u>	Response regulator	Other	<u>YP_012512.1</u>	<u>Q725X1</u>	

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<u>46562222</u>	Response regulator	REC only	<u>YP_009065.1</u>	<u>Q72WR4</u>	
46578528	Response regulator	REC only	<u>YP_009336.1</u>	<u>Q72FV2</u>	
<u>46578555</u>	Response regulator	REC only	<u>YP_009363.1</u>	<u>Q72FS5</u>	
<u>46578557</u>	Response regulator	REC only	<u>YP_009365.1</u>	<u>Q72FS3</u>	
46578562	Response regulator	REC only	<u>YP_009370.1</u>	<u>Q72FR8</u>	
46578664	Response regulator	REC only	<u>YP_009472.1</u>	<u>Q72FG6</u>	
46578675	Response regulator	REC only	<u>YP_009483.1</u>	<u>Q72FF5</u>	
<u>46578676</u>	Response regulator	REC only	<u>YP_009484.1</u>	<u>Q72FF4</u>	
<u>46578945</u>	Response regulator	REC only	<u>YP_009753.1</u>	<u>P33394</u>	
<u>46579219</u>	Response regulator	REC only	<u>YP_010027.1</u>	<u>Q72DX3</u>	
<u>46579838</u>	Response regulator	REC only	<u>YP_010646.1</u>	<u>Q72C57</u>	
46580004	Response regulator	REC only	<u>YP_010812.1</u>	<u>Q72BP1</u>	
<u>46580379</u>	Response regulator	REC only	<u>YP_011187.1</u>	<u>Q72AM2</u>	
46580478	Response regulator	REC only	<u>YP_011286.1</u>	<u>Q72AC4</u>	
<u>46580985</u>	Response regulator	REC only	<u>YP_011793.1</u>	<u>Q728M2</u>	
<u>46581174</u>	Response regulator	REC only	<u>YP_011982.1</u>	<u>Q727T4</u>	
<u>46581366</u>	Response regulator	REC only	<u>YP_012174.1</u>	<u>Q726Z3</u>	
<u>46581369</u>	Response regulator	REC only	<u>YP_012177.1</u>	<u>Q726Z0</u>	

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<u>46581617</u>	Response regulator	REC only	<u>YP_012425.1</u>	<u>Q726D8</u>	
46581630	Response regulator	REC only	<u>YP_012438.1</u>	<u>Q726C5</u>	
46581640	Response regulator	REC only	<u>YP_012448.1</u>	<u>Q725J2</u>	
46579050	Response regulator	REC-GGDEF	<u>YP_009858.1</u>	<u>Q72EE2</u>	
46578824	Response regulator	REC-GGDEF- EAL	<u>YP_009632.1</u>	<u>Q72F10</u>	
46578687	Response regulator	REC-HisK	<u>YP_009495.1</u>	<u>Q72FE3</u>	
<u>46578898</u>	Response regulator	REC-HisK	<u>YP_009706.1</u>	<u>Q72ET6</u>	Protein of REC- xxx-HisK type. Not counted as a bona fide response regulator
<u>46579301</u>	Response regulator	REC-HisK	<u>YP_010109.1</u>	<u>Q72DP1</u>	Protein of REC- xxx-HisK type. Not counted as a bona fide response regulator
46581081	Response regulator	REC-HisK	<u>YP_011889.1</u>	<u>Q728C6</u>	
46581370	Response regulator	REC-HisK	<u>YP_012178.1</u>	<u>Q726Y9</u>	
<u>46581371</u>	Response regulator	REC-HisK	<u>YP_012179.1</u>	<u>Q726Y8</u>	
<u>46579346</u>	Response regulator	REC- PAS/GAF/TPR	<u>YP_010154.1</u>	<u>Q72DJ6</u>	
<u>46581341</u>	Response regulator	REC- PAS/GAF/TPR	<u>YP_012149.1</u>	<u>Q727B8</u>	
<u>46579862</u>	Response regulator	REC-PP2C	<u>YP_010670.1</u>	<u>Q72C33</u>	
46562169	Response regulator	RpfG-type	<u>YP_009126.1</u>	<u>Q72WK3</u>	

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<u>46578746</u>	Response regulator	RpfG-type	<u>YP_009554.1</u>	<u>Q72F84</u>	
46579135	Response regulator	RpfG-type	<u>YP_009943.1</u>	<u>Q72E57</u>	
46579592	Response regulator	RpfG-type	<u>YP_010400.1</u>	<u>Q72CV2</u>	
46581337	Response regulator	RpfG-type	<u>YP_012145.1</u>	<u>Q727C2</u>	
46580011	Signal transducer	Adenylate cyclases class 2	<u>YP_010819.1</u>	<u>Q72BN5</u>	
46578439	Signal transducer	EAL	<u>YP_009247.1</u>	<u>Q72G39</u>	
46578824	Signal transducer	EAL	<u>YP_009632.1</u>	<u>Q72F10</u>	
<u>46578838</u>	Signal transducer	EAL	<u>YP_009646.1</u>	<u>Q72EZ6</u>	
<u>46578873</u>	Signal transducer	EAL	<u>YP_009681.1</u>	<u>Q72EW1</u>	
<u>46579130</u>	Signal transducer	EAL	<u>YP_009938.1</u>	<u>Q72E62</u>	
<u>46579601</u>	Signal transducer	EAL	<u>YP_010409.1</u>	<u>Q72CU3</u>	
46579825	Signal transducer	EAL	<u>YP_010633.1</u>	<u>Q72C70</u>	
46580368	Signal transducer	EAL	<u>YP_011176.1</u>	<u>Q72AN3</u>	
46580837	Signal transducer	EAL	<u>YP_011645.1</u>	<u>Q729B9</u>	
<u>46581467</u>	Signal transducer	EAL	<u>YP_012275.1</u>	<u>Q726P2</u>	
<u>46562169</u>	Signal transducer	HD-GYP domains	<u>YP_009126.1</u>	<u>Q72WK3</u>	
<u>46578546</u>	Signal transducer	HD-GYP domains	<u>YP_009354.1</u>	<u>Q72FT4</u>	
<u>46578906</u>	Signal transducer	HD-GYP domains	<u>YP_009714.1</u>	<u>Q72ES8</u>	

<u>46579080</u>	Signal transducer	HD-GYP domains	<u>YP_009888.1</u>	<u>Q72EB2</u>	
46579081	Signal transducer	HD-GYP domains	<u>YP_009889.1</u>	<u>Q72EB1</u>	
46579135	Signal transducer	HD-GYP domains	<u>YP_009943.1</u>	<u>Q72E57</u>	
46579385	Signal transducer	HD-GYP domains	<u>YP_010193.1</u>	<u>Q72DF7</u>	
46579433	Signal transducer	HD-GYP domains	<u>YP_010241.1</u>	<u>Q72DA9</u>	
46579592	Signal transducer	HD-GYP domains	<u>YP_010400.1</u>	<u>Q72CV2</u>	
46579973	Signal transducer	HD-GYP domains	<u>YP_010781.1</u>	<u>Q72BS2</u>	
<u>46580919</u>	Signal transducer	HD-GYP domains	<u>YP_011727.1</u>	<u>Q728T7</u>	
<u>46580955</u>	Signal transducer	HD-GYP domains	<u>YP_011763.1</u>	<u>Q728Q2</u>	
46581337	Signal transducer	HD-GYP domains	<u>YP_012145.1</u>	<u>Q727C2</u>	
<u>46581526</u>	Signal transducer	HD-GYP domains	<u>YP_012334.1</u>	<u>Q726l4</u>	
46562168	Signal transducer	His kinases	<u>YP_009127.1</u>	<u>Q72WK2</u>	
46562187	Signal transducer	His kinases	<u>YP_009105.1</u>	<u>Q72WM4</u>	
46562256	Signal transducer	His kinases	<u>YP_009178.1</u>	<u>Q72WF1</u>	
<u>46578430</u>	Signal transducer	His kinases	<u>YP_009238.1</u>	<u>Q72G47</u>	
<u>46578442</u>	Signal transducer	His kinases	<u>YP_009250.1</u>	<u>Q72G36</u>	
<u>46578498</u>	Signal transducer	His kinases	<u>YP_009306.1</u>	<u>Q72FY2</u>	
<u>46578509</u>	Signal transducer	His kinases	<u>YP_009317.1</u>	<u>Q72FX1</u>	

<u>46578526</u>	Signal transducer	His kinases	<u>YP_009334.1</u>	<u>Q72FV4</u>	
46578536	Signal transducer	His kinases	<u>YP_009344.1</u>	<u>Q72FU4</u>	
<u>46578556</u>	Signal transducer	His kinases	<u>YP_009364.1</u>	<u>Q72FS4</u>	
46578674	Signal transducer	His kinases	<u>YP_009482.1</u>	<u>Q72FF6</u>	
<u>46578686</u>	Signal transducer	His kinases	<u>YP_009494.1</u>	<u>Q72FE4</u>	
<u>46578687</u>	Signal transducer	His kinases	<u>YP_009495.1</u>	<u>Q72FE3</u>	
46578747	Signal transducer	His kinases	<u>YP_009555.1</u>	<u>Q72F83</u>	
<u>46578865</u>	Signal transducer	His kinases	<u>YP_009673.1</u>	<u>Q72EW9</u>	
<u>46578898</u>	Signal transducer	His kinases	<u>YP_009706.1</u>	<u>Q72ET6</u>	
<u>46578955</u>	Signal transducer	His kinases	<u>YP_009763.1</u>	<u>Q72EN7</u>	
<u>46578996</u>	Signal transducer	His kinases	<u>YP_009804.1</u>	<u>Q72EJ6</u>	
<u>46579011</u>	Signal transducer	His kinases	<u>YP_009819.1</u>	<u>Q72EI1</u>	
<u>46579036</u>	Signal transducer	His kinases	<u>YP_009844.1</u>	<u>Q72EF6</u>	
46579094	Signal transducer	His kinases	<u>YP_009902.1</u>	<u>Q72E98</u>	
<u>46579095</u>	Signal transducer	His kinases	<u>YP_009903.1</u>	<u>Q72E97</u>	
<u>46579134</u>	Signal transducer	His kinases	<u>YP_009942.1</u>	<u>Q72E58</u>	
<u>46579150</u>	Signal transducer	His kinases	<u>YP_009958.1</u>	<u>Q72E42</u>	
<u>46579156</u>	Signal transducer	His kinases	<u>YP_009964.1</u>	<u>Q72E36</u>	

<u>46579168</u>	Signal transducer	His kinases	<u>YP_009976.1</u>	<u>Q72E24</u>	
46579216	Signal transducer	His kinases	<u>YP_010024.1</u>	<u>Q72DX6</u>	
46579301	Signal transducer	His kinases	<u>YP_010109.1</u>	<u>Q72DP1</u>	
46579345	Signal transducer	His kinases	<u>YP_010153.1</u>	<u>Q72DJ7</u>	
<u>46579358</u>	Signal transducer	His kinases	<u>YP_010166.1</u>	<u>Q72DI4</u>	
<u>46579568</u>	Signal transducer	His kinases	<u>YP_010376.1</u>	<u>Q72CX6</u>	
46579829	Signal transducer	His kinases	<u>YP_010637.1</u>	<u>Q72C66</u>	
<u>46579974</u>	Signal transducer	His kinases	<u>YP_010782.1</u>	<u>Q72BS1</u>	
<u>46580005</u>	Signal transducer	His kinases	<u>YP_010813.1</u>	<u>Q72BP0</u>	
46580157	Signal transducer	His kinases	<u>YP_010965.1</u>	<u>Q72B89</u>	
46580367	Signal transducer	His kinases	<u>YP_011175.1</u>	<u>Q72AN4</u>	
46580369	Signal transducer	His kinases	<u>YP_011177.1</u>	<u>Q72AN2</u>	
46580477	Signal transducer	His kinases	<u>YP_011285.1</u>	<u>Q72AC5</u>	
46580484	Signal transducer	His kinases	<u>YP_011292.1</u>	<u>Q72AB8</u>	
46580534	Signal transducer	His kinases	<u>YP_011342.1</u>	<u>Q72A68</u>	
<u>46580686</u>	Signal transducer	His kinases	<u>YP_011494.1</u>	<u>Q729R8</u>	
<u>46580800</u>	Signal transducer	His kinases	<u>YP_011608.1</u>	<u>Q729F6</u>	
<u>46580817</u>	Signal transducer	His kinases	<u>YP_011625.1</u>	<u>Q729D9</u>	

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<u>46580950</u>	Signal transducer	His kinases	<u>YP_011758.1</u>	<u>Q728Q7</u>	
46580984	Signal transducer	His kinases	<u>YP_011792.1</u>	<u>Q728M3</u>	
46580991	Signal transducer	His kinases	<u>YP_011799.1</u>	<u>Q728L6</u>	
46581020	Signal transducer	His kinases	<u>YP_011828.1</u>	<u>Q72817</u>	
<u>46581081</u>	Signal transducer	His kinases	<u>YP_011889.1</u>	<u>Q728C6</u>	
46581083	Signal transducer	His kinases	<u>YP_011891.1</u>	<u>Q728C4</u>	
46581335	Signal transducer	His kinases	<u>YP_012143.1</u>	<u>Q727C4</u>	
46581365	Signal transducer	His kinases	<u>YP_012173.1</u>	<u>Q726Z4</u>	
<u>46581370</u>	Signal transducer	His kinases	<u>YP_012178.1</u>	<u>Q726Y9</u>	
<u>46581371</u>	Signal transducer	His kinases	<u>YP_012179.1</u>	<u>Q726Y8</u>	
46581425	Signal transducer	His kinases	<u>YP_012233.1</u>	<u>Q726T4</u>	
46581448	Signal transducer	His kinases	<u>YP_012256.1</u>	<u>Q726R1</u>	
<u>46581461</u>	Signal transducer	His kinases	<u>YP_012269.1</u>	<u>Q726P8</u>	
46581464	Signal transducer	His kinases	<u>YP_012272.1</u>	<u>Q726P5</u>	
<u>46581465</u>	Signal transducer	His kinases	<u>YP_012273.1</u>	<u>Q726P4</u>	
<u>46581554</u>	Signal transducer	His kinases	<u>YP_012362.1</u>	<u>Q726F6</u>	
<u>46581618</u>	Signal transducer	His kinases	<u>YP_012426.1</u>	<u>Q726D7</u>	
46581623	Signal transducer	His kinases	<u>YP_012431.1</u>	<u>Q725H5</u>	

<u>46581671</u>	Signal transducer	His kinases	<u>YP_012479.1</u>	<u>Q726A4</u>	
46581735	Signal transducer	His kinases	<u>YP_012543.1</u>	<u>Q725U0</u>	
46581783	Signal transducer	His kinases	<u>YP_012591.1</u>	<u>Q725P2</u>	
<u>46578435</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_009243.1</u>	<u>Q72G42</u>	
<u>46578511</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_009319.1</u>	<u>Q72FW9</u>	
<u>46578587</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_009395.1</u>	<u>Q72FP3</u>	
<u>46578600</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_009408.1</u>	<u>Q72FN0</u>	
<u>46578760</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_009568.1</u>	<u>Q72F70</u>	
<u>46579005</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_009813.1</u>	<u>Q72EI7</u>	
<u>46579022</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_009830.1</u>	<u>Q72EH0</u>	
<u>46579059</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_009867.1</u>	<u>Q72ED3</u>	
46579082	Signal transducer	Methyl- Accepting	<u>YP_009890.1</u>	<u>Q72EB0</u>	

		Chemotaxis Proteins			
<u>46579113</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_009921.1</u>	<u>Q72E79</u>	
<u>46579163</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_009971.1</u>	<u>Q72E29</u>	
<u>46579348</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_010156.1</u>	<u>Q72DJ4</u>	
<u>46579580</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_010388.1</u>	<u>Q72CW4</u>	
<u>46579811</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_010619.1</u>	<u>Q72C84</u>	
<u>46580266</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_011074.1</u>	<u>Q72AY3</u>	
<u>46580278</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_011086.1</u>	<u>Q72AX1</u>	
<u>46580293</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_011101.1</u>	<u>Q72AV6</u>	
<u>46580371</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_011179.1</u>	<u>Q72AN0</u>	
46580384	Signal transducer	Methyl- Accepting	<u>YP_011192.1</u>	<u>Q72AL7</u>	

		Chemotaxis Proteins			
<u>46580700</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_011508.1</u>	<u>Q729Q4</u>	
<u>46580714</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_011522.1</u>	<u>Q729P1</u>	
<u>46580722</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_011530.1</u>	<u>Q729N3</u>	
<u>46580989</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_011797.1</u>	<u>Q728L8</u>	
<u>46581142</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_011950.1</u>	<u>Q727W6</u>	
<u>46581438</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_012246.1</u>	<u>Q726S1</u>	
<u>46581485</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_012293.1</u>	<u>Q726M4</u>	
<u>46581557</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_012365.1</u>	<u>Q726F3</u>	
<u>46581584</u>	Signal transducer	Methyl- Accepting Chemotaxis Proteins	<u>YP_012392.1</u>	<u>P35841</u>	
<u>46578895</u>	Signal transducer	Ser/Thr kinases	<u>YP_009703.1</u>	<u>Q72ET9</u>	

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<u>46578439</u>	Signal transducer	Ser/Thr kinases in archaea	<u>YP_009247.1</u>	<u>Q72G39</u>	
46578604	Signal transducer	Ser/Thr kinases in archaea	<u>YP_009412.1</u>	<u>Q72FM6</u>	
<u>46578771</u>	Signal transducer	Ser/Thr kinases in archaea	<u>YP_009579.1</u>	<u>Q72F59</u>	
46578824	Signal transducer	Ser/Thr kinases in archaea	<u>YP_009632.1</u>	<u>Q72F10</u>	
46578832	Signal transducer	Ser/Thr kinases in archaea	<u>YP_009640.1</u>	<u>Q72F02</u>	
<u>46578838</u>	Signal transducer	Ser/Thr kinases in archaea	<u>YP_009646.1</u>	<u>Q72EZ6</u>	
46579050	Signal transducer	Ser/Thr kinases in archaea	<u>YP_009858.1</u>	<u>Q72EE2</u>	
46579130	Signal transducer	Ser/Thr kinases in archaea	<u>YP_009938.1</u>	<u>Q72E62</u>	
<u>46579176</u>	Signal transducer	Ser/Thr kinases in archaea	<u>YP_009984.1</u>	<u>Q72E16</u>	
<u>46579353</u>	Signal transducer	Ser/Thr kinases in archaea	<u>YP_010161.1</u>	<u>Q72DI9</u>	
<u>46579601</u>	Signal transducer	Ser/Thr kinases in archaea	<u>YP_010409.1</u>	<u>Q72CU3</u>	
<u>46579825</u>	Signal transducer	Ser/Thr kinases in archaea	<u>YP_010633.1</u>	<u>Q72C70</u>	
<u>46580196</u>	Signal transducer	Ser/Thr kinases in archaea	<u>YP_011004.1</u>	<u>Q72B52</u>	
46580215	Signal transducer	Ser/Thr kinases in archaea	<u>YP_011023.1</u>	<u>Q72B33</u>	
<u>46580271</u>	Signal transducer	Ser/Thr kinases in archaea	<u>YP_011079.1</u>	<u>Q72AX8</u>	
<u>46580368</u>	Signal transducer	Ser/Thr kinases in archaea	<u>YP_011176.1</u>	<u>Q72AN3</u>	
46580424	Signal transducer	Ser/Thr kinases in archaea	<u>YP_011232.1</u>	<u>Q72AH8</u>	
46580472	Signal transducer	Ser/Thr kinases in archaea	<u>YP_011280.1</u>	<u>Q72AD0</u>	

46580837	Signal transducer	Ser/Thr kinases in archaea	<u>YP_011645.1</u>	<u>Q729B9</u>	
<u>46580974</u>	Signal transducer	Ser/Thr kinases in archaea	<u>YP_011782.1</u>	<u>Q728N3</u>	
<u>46581167</u>	Signal transducer	Ser/Thr kinases in archaea	<u>YP_011975.1</u>	<u>Q727U1</u>	
<u>46581357</u>	Signal transducer	Ser/Thr kinases in archaea	<u>YP_012165.1</u>	<u>Q727A2</u>	
46581467	Signal transducer	Ser/Thr kinases in archaea	<u>YP_012275.1</u>	<u>Q726P2</u>	
<u>46581471</u>	Signal transducer	Ser/Thr kinases in archaea	<u>YP_012279.1</u>	<u>Q726N8</u>	
46581509	Signal transducer	Ser/Thr kinases in archaea	<u>YP_012317.1</u>	<u>Q726K1</u>	
46581582	Signal transducer	Ser/Thr kinases in archaea	<u>YP_012390.1</u>	<u>Q726B9</u>	

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