

S8 Table. Protein sequences (protein score > 63) identified in oat avenins. The isolated avenin fraction was digested with chymotrypsin, analyzed by untargeted LC-MS/MS and the MS/MS files were searched using the Mascot software and the NCBI Protein database (taxonomy *Viridiplantae*).

NCBI Accession	Protein score	Protein name	Organism	Number of peptide sequences
Avenins (49)				
CCH22485.1	407	Avenin	<i>A. eriantha</i>	9
CCH22488.1	405	Avenin	<i>A. murphyi</i>	9
CCH22489.1	404	Avenin	<i>A. magna</i>	9
CCH22518.1	380	Avenin	<i>A. prostrata</i>	9
CCH22504.1	379	Avenin	<i>A. canariensis</i>	9
CCH22487.1	378	Avenin	<i>A. longiglumis</i>	9
CCH22493.1	365	Avenin	<i>A. macrostachya</i>	9
CCH22492.1	362	Avenin, partial	<i>A. murphyi</i>	9
CCH22519.1	361	Avenin	<i>A. sativa</i>	8
CBL51494.1	359	Avenin protein, partial	<i>A. sativa</i>	8
CCH22520.1	358	Avenin	<i>A. strigosa</i>	8
CCH22490.1	354	Avenin	<i>A. ventricosa</i>	8
CCH22491.1	354	Avenin	<i>A. macrostachya</i>	8
CCC80643.1	337	Avenin protein, partial	<i>A. longiglumis</i>	7
CBL51496.1	279	Avenin protein, partial	<i>A. sativa</i>	6
AGB56857.1	277	Gliadin-like avenin	<i>A. sativa</i>	6
CBL51489.1	230	Avenin protein, partial	<i>A. sativa</i>	6
CCH22495.1	230	Avenin, partial	<i>A. sativa</i>	6
CCH22496.1	230	Avenin	<i>A. insularis</i>	6
AGB56872.1	225	Gliadin-like avenin	<i>A. sativa</i>	5
CCC80650.1	202	Avenin protein, partial	<i>A. prostrata</i>	5
Q09114.1	189	RecName: Full=Avenin-E; AltName: Full=Alpha-2 avenin; AltName: Full=Avenin N9; AltName: Full=Celiac immunoreactive protein 3; Short=CIP-3; AltName: Full=Prolamin	<i>A. sativa</i>	5
CCC80653.1	181	Avenin protein, partial	<i>A. strigosa</i>	4
AAA32716.1	181	Avenin	<i>A. sativa</i>	4
CCC80651.1	181	Avenin protein, partial	<i>A. longiglumis</i>	4
CCC80677.1	159	Avenin protein, partial	<i>A. macrostachya</i>	4
CCC80673.1	158	Avenin protein, partial	<i>A. murphyi</i>	4
AGB56858.1	158	Gliadin-like avenin	<i>A. sativa</i>	4
CBL51488.1	158	Avenin protein, partial	<i>A. sativa</i>	4
AGB56866.1	148	Gliadin-like avenin	<i>A. sativa</i>	3
AGB56870.1	148	Gliadin-like avenin	<i>A. sativa</i>	3
CCC80672.1	148	Avenin protein, partial	<i>A. murphyi</i>	3
CCC80644.1	148	Avenin protein, partial	<i>A. damascena</i>	3
CCC80640.1	148	Avenin protein, partial	<i>A. strigosa</i>	3
AGB56874.1	147	Gliadin-like avenin	<i>A. sativa</i>	3
CCC80676.1	129	Avenin protein, partial	<i>A. insularis</i>	3
CCC80647.1	129	Avenin protein, partial	<i>A. canariensis</i>	3
AGB56868.1	118	Gliadin-like avenin	<i>A. sativa</i>	3
CCC80661.1	98	Avenin protein, partial	<i>A. ventricosa</i>	3
CCC80659.1	98	Avenin protein, partial	<i>A. clauda</i>	3

Q09097.1	94	RecName: Full=Avenin-F; AltName: Full=Celiac immunoreactive protein 2; Short=CIP-2; AltName: Full=Gamma-3-avenin; AltName: Full=Prolamin	<i>A. sativa</i>	3
AAB32025.1	77	Alcohol-soluble avenin-3=23.2 kda protein [Avena sativa=oat, Narymsky 943, Peptide, 201 aa]	<i>A. sativa</i>	2
P80356.1	77	RecName: Full=Avenin-3; AltName: Full=Prolamin; Flags: Precursor	<i>A. sativa</i>	2
CBL51495.1	77	Avenin protein, partial	<i>A. sativa</i>	2
CCC80642.1	77	Avenin protein, partial	<i>A. canariensis</i>	2
CCC80654.1	77	Avenin protein, partial	<i>A. longiglumis</i>	2
CCC80666.1	77	Avenin protein, partial	<i>A. magna</i>	2
AGB56873.1	77	Gliadin-like avenin	<i>A. sativa</i>	2
AGB56869.1	77	Gliadin-like avenin	<i>A. sativa</i>	2