```
TaPDIL5A   23 LYSAGSPVHQ LNPNNFK-KV LNANGVVLVE FFAPWCGHCK QLTPIWEKAA GVLKGVATVA 81
αGmPDIM    29 LYGASSPVLQ LTPSNFKSKV LNSNGVVLVE FFAPWCGHCQ ALTPIWEKAA TVLKGVVTVA 88
              **.*.*** * *.*.*** ** **:******* *********:  *********  *****.***

TaPDIL5A   83 ALDADAHKEL AQQYGIRGFP TIKVFLPGKP PVDYEGARDV KPIVNFALSQ VKGLLRDRLD 141
GmPDIM     89 AIDADAHPSL AQEYGIRGFP TIKVFAPGKP PVDYQGARDA KPIAEFALQQ VKALLKDRLS 148
              *:***** .* **:******* ***** **** ****:****. ***.:***.* **.**:***.

TaPDIL5A  142 GKTSGGSSGK TSGGSSEKKN EPNESVELNS SNFDELVVKS KDLWIVEFFA PWCGHCKKLA 201
GmPDIM    149 GKATGGSSDK T--------- ETSSSVELNS GNFDELVIKS KELWIVEFFA PWCGHCKKLA 199
              **::****.* *          *...****** .******:** *:******** **********

TaPDIL5A  202 PEWKRAAKNL KGQVKLGHVD CDSDKSLMSK YKVEGFPTIL VFGADKESPF PYQGARAASA 261
GmPDIM    200 PEWKKASNSL KGKVKLGHVD CDAEKSLMSR FKVQGFPTIL VFGADKDSPI PYEGARTALA 259
              ****:*::.* **:******* **::*****: :**:****** ******:**: **:***:* *

TaPDIL5A  262 IEPFALEQLE ANAAPPEVSE LTSADVMEEK CASAAICFVS FLPDILDSKA EGRNKYLELL 321
GmPDIM    260 IESFALEQLE TNVAPPEVTE LHSPDVLEEK CGSAAICFVA FLPDILDSKA EGRNIYLQQL 319
              **.******* :*.*****:* * *.**:*** *.*******: ********** **** **: *

TaPDIL5A  322 LSVAEKFKKS PYSFVWAGAG KQADLEKQVG VGGYGYPAMV ALNVKKGAYA PLRSAFELAE 381
GmPDIM    320 LSVAEKFKRS PYSYVWVAAG NQPDLEKNVG VGGYGYPALV ALNLKKAVYA PLKSAFELDQ 379
              ********:* ***:**..** :*.****:** ********:* ***:**..** **:***** :

TaPDIL5A  382 ITEFVKEAGR GGKGNLPLEG APTVVESEPW DGKDGEVIEE DEFSLEELMA DSSAPNDEL 440
GmPDIM    380 IIEFVKEAGR GGKGNLPLQG TPTIVKTEPW DGKDGEIIEE DEFSLEELMG EDASSKDEL 439
              * ******** ********:* :**:*::*** ******:*** *********. :.::.:***
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**Figure S7. Alignment of amino acid sequences of TaPDIL5A and soybean GmPDIM.** The active center CGHC motifs (shaded in black), conserved arginine (box with straight lines), and glutamic acid (boxes with dotted lines) are indicated. Asterisks indicate positions that have a single, fully conserved residue. Colon indicates conservation between groups of strongly similar properties. Period indicates conservation between groups of weakly similar properties.