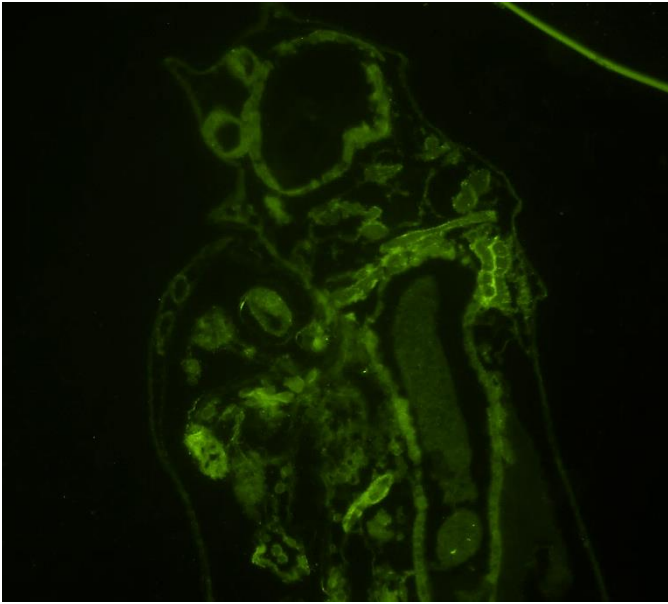
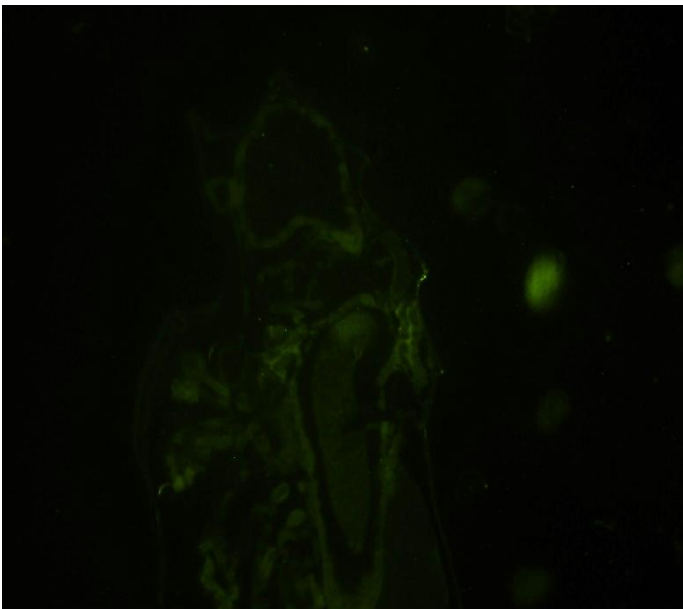


Additional File 2: Antibody recognition of HR97g is outcompeted by 100X HR97g peptide in 7-day old *Daphnia magna*



7day-D.magna-HR97g Ab

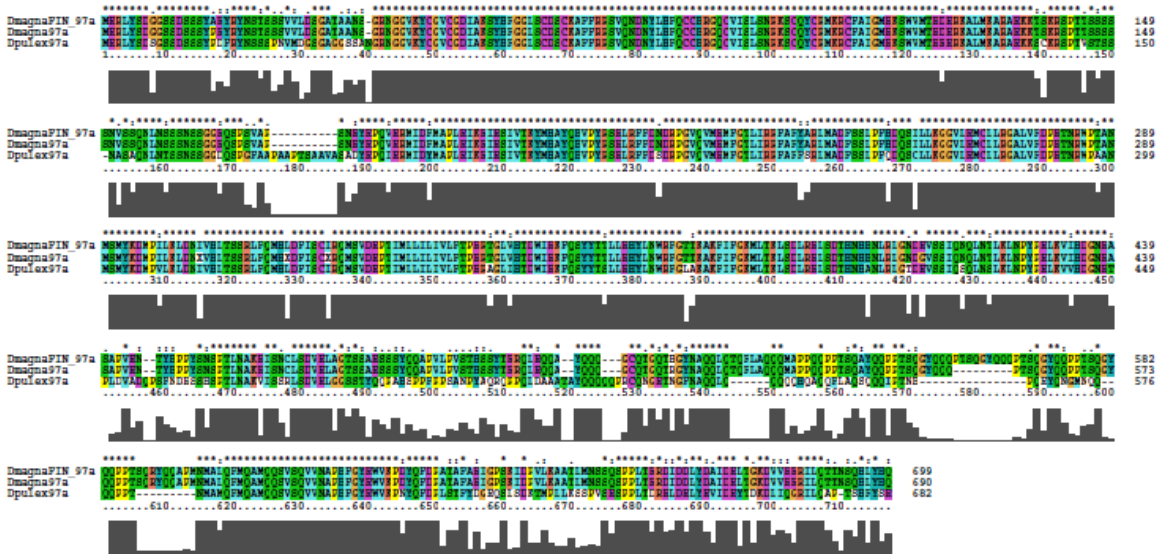


7day-D.magna-HR97g Ab + 1
to 100 dilution with HR97g
peptide

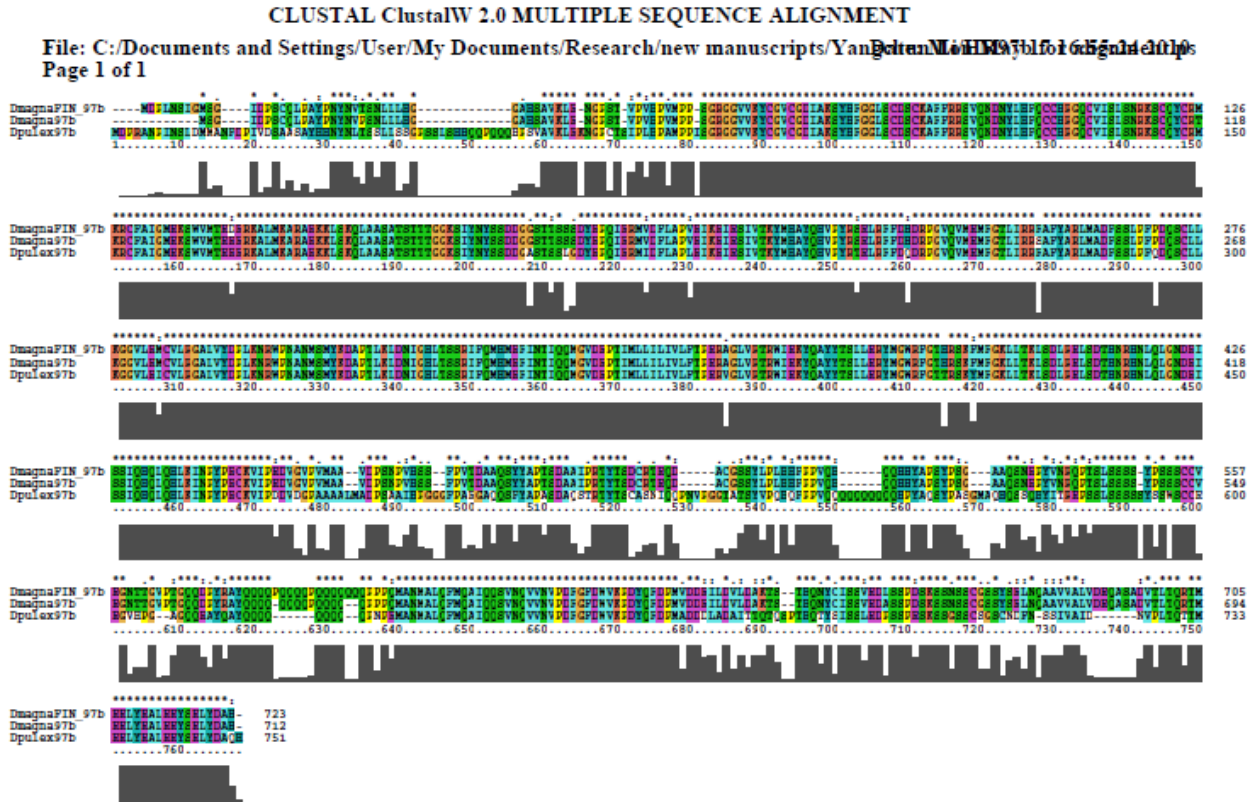
Additional File 3: Clustalx alignment file comparing the sequences of FinmagnaHR97a, Clem-magnaHR97a (Dmagna97a), and DappuHR97a.

CLUSTAL ClustalW 2.0 MULTIPLE SEQUENCE ALIGNMENT

File: C:/Documents and Settings/User/My Documents/Research/new manuscripts/Yan Daitan/1618/1618-54-1016
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Additional File 4: Clustalx alignment file comparing the sequences of Fin-magnaHR97b, Clem-magnaHR97b (Dmagna97b), and DappuHR97b.



Additional File 6: Base-contact residues for selected NR1I, NR1J, and NR1L members. Each member of the NR1J group has the conserved ESCKAFFR base-contact residues as does HR97g, a member of the NR1L group. HR97a and HR97b show slight variation from the NR1J conserved base-contact residue sequence.

magnaHR97g	(NR1L3)	CC ESCKAFFRR AMQND
magnaHR97a	(NR1L1)	SCD SCKAFFRR SVQND
magnaHR97b	(NR1L2)	SCD SCKAFFRR SVQND
IsHR97	(NR1L)	SCD SCKAFFRR SVQNE
magnaHR96	(NR1H)	TC ESCKAFFRR NALKG
IsHR96	(NR1H)	TC ESCKAFFRR NAIKN
DHR96	(NR1H)	TC ESCKAFFRR NALAK
CeNHR48	(NR1H)	TC ESCKAFFRR NANKE
CionaVDRL	(NR1I1)	TCE GCKGFFRR SVKNS
HsCAR	(NR1I3)	TCE GCKGFFRR TVSKS
HsPXR	(NR1I2)	TCE GCKGFFRR AMKRN