

## Product Datasheet

### VTG - Sole vitellogenin GRP12208

Species/Host	Rabbit
Reactivity	Fish
Tested Applications	ELISA, WB
Immunogen	native vitellogenin purified from plasma of estradiol induced male of Senegalese sole ( <i>Solea senegalensis</i> )
Form/Appearance	Lyophilized
Storage	Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.
Note	For research use only.
Clonality	Polyclonal
Purity	Serum
MW	ca. 200 kDa
Dilution Range	1 : 5 000 on sole serum (ELISA), 1 : 5 000 (WB)
Application Notes	<p>Additional Information: The developed VTG ELISA, using these VTG and AbVTG, has been validated for Senegalese sole, sea bass (<i>Dicentrarchus labrax</i>) and seabream (<i>Sparus aurata</i>), which all gave parallel displacement curves in the assay. Probably, plasmas from several other fish species displace parallel and can also be used in the assay, although it has to be validated for each case. VTG can be purified using following methodology: Mañanós et al. (1994). Sea bass (<i>Dicentrarchus labrax</i> L.) vitellogenin. I—Induction, purification and partial characterization. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, Vol 107 (2): 205-216. Guzman et al. (2008) Vitellogenin, steroid plasma levels and spawning performance of cultured female Senegalese sole (<i>Solea senegalensis</i>). Gen and Comp Endocrinology 156: 285-297. Background: Vitellogen (VTG) is a glucolipoprotein yolk precursor produced by all oviparous animals. This protein is female-specific and its expression is under hormonal control (estrogen). However, in the presence of Endocrine Disrupting Chemicals (EDC's), males can express the VgTG gene in a dose dependent manner. The use of VTG gene expression in male fish can be used as a molecular marker of exposure to estrogenic EDC's. Reconstitution: For reconstitution add 200 µl of sterile water</p>