20 40 60 80 100 120

'''''''''|'''''''''|'''''''''|'''''''''|'''''''''|'''''''''|'''''''''|'''''''''|'''''''''|'''''''''|'''''''''|'''''''''|

ROI\_00014\_iTzDak19-1 SIVAQLSRPDPALAALTNDHLVALACLGGRPALDAVKKGLPHAPELIRRVNSRIGERTSHRVADLAHVVRVLGFFQSHSHPAQAFDDAMTQFGMSRHGLVQLFRRVGVTEFEARCGTIPP 120

ROI\_00001\_iTzDak19-2 SIVAQLSRPDPALAALTNDHLVALACLGGRPALDAVKKGLPHAPELIRRVNSRIGERTSHRVADLAHVVRVLGFFQSHSHPAQAFDDAMTQFGMSRHGLVQLFRRVGVTEFEARCGTIPP 120

ROI\_00006\_iTzDak19-2 SIVAQLSRPDPALAALTNDHLVALACLGGRPALDAVKKGLPHAPELIRRVNSRIGERTSHRVADLAHVVRVLGFFQSHSHPAQAFDDAMTQFGMSRHGLVQLFRRVGVTEFEARCGTIPP 120

ROI\_00013\_iTzDak19-3 SIVAQLSRPDPALAALTNDHLVALACLGGRPALDAVKKGLPHAPELIRRVNSRIGERTSHRVADLAHVVRVLGFFQSHSHPAQAFDDAMTQFGMSRHGLVQLFRRVGVTEFEARCGTIPP 120

ROI\_00018\_iTzDak19-3 SIVAQLSRPDPALAALTNDHLVALACLGGRPALDAVKKGLPHAPELIRRVNSRIGERTSHRVADLAHVVRVLGFFQSHSHPAQAFDDAMTQFGMSRHGLVQLFRRVGVTEFEARCGTIPP 120

ROI\_00007\_iTzLuk21-3 SIVAQLSRPDPALAALTNDHLVALACLGGRPALDAVKKGLPHAPELIRRVNSRIGERTSHRVADLAHVVRVLGFFQSHSHPAQAFDDAMTQFGMSRHGLVQLFRRVGVTEFEARCGTIPP 120

ROI\_00012\_iTzLuk21-3 SIVAQLSRPDPALAALTNDHLVALACLGGRPALDAVKKGLPHAPELIRRVNSRIGERTSHRVADLAHVVRVLGFFQSHSHPAQAFDDAMTQFGMSRHGLVQLFRRVGVTEFEARCGTIPP 120

ROI\_00013\_iTzLuk21-1 SIVAQLSRPDPALAALTNDHLVALACLGGRPALDAVKKGLPHAPELIRRVNSRIGERTSHRVADLAHVVRVLGFFQSHSHPAQAFDDAMTQFGMSRHGLVQLFRRVGVTEFEARCGTIPP 120

ROI\_00018\_iTzLuk21-1 SIVAQLSRPDPALAALTNDHLVALACLGGRPALDAVKKGLPHAPELIRRVNSRIGERTSHRVADLAHVVRVLGFFQSHSHPAQAFDDAMTQFGMSRHGLVQLFRRVGVTEFEARCGTIPP 120

ROI\_00005\_iTzLuk21-4 SIVAQLSRPDPALAALTNDHLVALACLGGRPALDAVKKGLPHAPELIRRVNSRIGERTSHRVADLAHVVRVLGFFQSHSHPAQAFDDAMTQFGMSRHGLVQLFRRVGVTEFEARCGTIPP 120

ROI\_00006\_iTzLuk21-4 SIVAQLSRPDPALAALTNDHLVALACLGGRPALDAVKKGLPHAPELIRRVNSRIGERTSHRVADLAHVVRVLGFFQSHSHPAQAFDDAMTQFGMSRHGLVQLFRRVGVTEFEARCGTIPP 120

ROI\_00006\_iTzLuk21-5 SIVAQLSRPDPALAALTNDHLVALACLGGRPALDAVKKGLPHAPELIRRVNSRIGERTSHRVADLAHVVRVLGFFQSHSHPAQAFDDAMTQFGMSRHGLVQLFRRVGVTEFEARCGTIPP 120

ROI\_00011\_iTzLuk21-5 SIVAQLSRPDPALAALTNDHLVALACLGGRPALDAVKKGLPHAPELIRRVNSRIGERTSHRVADLAHVVRVLGFFQSHSHPAQAFDDAMTQFGMSRHGLVQLFRRVGVTEFEARCGTIPP 120

ROI\_00013\_iTzLuk21-2 SIVAQLSRPDPALAALTNDHLVALACLGGRPALDAVKKGLPHAPELIRRVNSRIGERTSHRVADLAHVVRVLGFFQSHSHPAQAFDDAMTQFGMSRHGLVQLFRRVGVTEFEARCGTIPP 120

ROI\_00018\_iTzLuk21-2 SIVAQLSRPDPALAALTNDHLVALACLGGRPALDAVKKGLPHAPELIRRVNSRIGERTSHRVADLAHVVRVLGFFQSHSHPAQAFDDAMTQFGMSRHGLVQLFRRVGVTEFEARCGTIPP 120

Tal3a\_PXO99A SIVAQLSRPDPALAALTNDHLVALACLGGRPALDAVKKGLPHAPELIRRVNSRIGERTSHRVADLAHVVRVLGFFQSHSHPAQAFDDAMTQFGMSRHGLVQLFRRVGVTEFEARCGTIPP 120

Tal3b\_PXO99A SIVAQLSRRDPALAALTNDQLVALACLGGRPAPHSRKRKSHD------------------------------------------------------------------------------ 42

PthXo1\_PXO99A SIVAQLSRPDPALAALTNDHLVALACLGGRPAMDAVKKGLPHAPELIRRVNRRIGERTSHRVADYAQVVRVLEFFQCHSHPAYAFDEAMTQFGMSRNGLVQLFRRVGVTELEARGGTLPP 120

Consensus SIVAQLSRXDPALAALTNDXLVALACLGGRPAXXXXKXXXXXAPELIRRVNXRIGERTSHRVADXAXVVRVLXFFQXHSHPAXAFDXAMTQFGMSRXGLVQLFRRVGVTEXEARXGTJPP 120

140 160 180 200 220 240

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ROI\_00014\_iTzDak19-1 ASQRWDRILQASGTKRAKPSPTSAQTPDQASLHAFPDSLERDLDAPSPMHEGDQTRASRRKRS--------------------------------------------------------- 183

ROI\_00001\_iTzDak19-2 ASQRWDRILQASGTKRAKPSPTSAQTPDQASLHAFPDSLERDLDAPSPMHEGDQTRASRRKRS--------------------------------------------------------- 183

ROI\_00006\_iTzDak19-2 ASQRWDRILQASGTKRAKPSPTSAQTPDQASLHAFPDSLERDLDAPSPMHEGDQTRASRRKRS--------------------------------------------------------- 183

ROI\_00013\_iTzDak19-3 ASQRWDRILQASGTKRAKPSPTSAQTPDQASLHAFPDSLERDLDAPSPMHEGDQTRASRRKRS--------------------------------------------------------- 183

ROI\_00018\_iTzDak19-3 ASQRWDRILQASGTKRAKPSPTSAQTPDQASLHAFPDSLERDLDAPSPMHEGDQTRASRRKRS--------------------------------------------------------- 183

ROI\_00007\_iTzLuk21-3 ASQRWDRILQASGTKRAKPSPTSAQTPDQASLHAFPDSLERDLDAPSPMHEGDQTRASRRKRS--------------------------------------------------------- 183

ROI\_00012\_iTzLuk21-3 ASQRWDRILQASGTKRAKPSPTSAQTPDQASLHAFPDSLERDLDAPSPMHEGDQTRASRRKRS--------------------------------------------------------- 183

ROI\_00013\_iTzLuk21-1 ASQRWDRILQASGTKRAKPSPTSAQTPDQASLHAFPDSLERDLDAPSPMHEGDQTRASRRKRS--------------------------------------------------------- 183

ROI\_00018\_iTzLuk21-1 ASQRWDRILQASGTKRAKPSPTSAQTPDQASLHAFPDSLERDLDAPSPMHEGDQTRASRRKRS--------------------------------------------------------- 183

ROI\_00005\_iTzLuk21-4 ASQRWDRILQASGTKRAKPSPTSAQTPDQASLHAFPDSLERDLDAPSPMHEGDQTRASRRKRS--------------------------------------------------------- 183

ROI\_00006\_iTzLuk21-4 ASQRWDRILQASGTKRAKPSPTSAQTPDQASLHAFPDSLERDLDAPSPMHEGDQTRASRRKRS--------------------------------------------------------- 183

ROI\_00006\_iTzLuk21-5 ASQRWDRILQASGTKRAKPSPTSAQTPDQASLHAFPDSLERDLDAPSPMHEGDQTRASRRKRS--------------------------------------------------------- 183

ROI\_00011\_iTzLuk21-5 ASQRWDRILQASGTKRAKPSPTSAQTPDQASLHAFPDSLERDLDAPSPMHEGDQTRASRRKRS--------------------------------------------------------- 183

ROI\_00013\_iTzLuk21-2 ASQRWDRILQASGTKRAKPSPTSAQTPDQASLHAFPDSLERDLDAPSPMHEGDQTRASRRKRS--------------------------------------------------------- 183

ROI\_00018\_iTzLuk21-2 ASQRWDRILQASGTKRAKPSPTSAQTPDQASLHAFPDSLERDLDAPSPMHEGDQTRASRRKRS--------------------------------------------------------- 183

Tal3a\_PXO99A ASQRWDRILQASGTKRAKPSPTSAQTPDQASLHAFPDSLERDLDAPSPMHEGDQTRASRRKRS--------------------------------------------------------- 183

Tal3b\_PXO99A ------------------------------------------------------------------------------------------------------------------------ 42

PthXo1\_PXO99A ASQRWDRILQASGMKRAKPSPTSAQTPDQASLHAFADSLERDLDAPSPMHEGDQTGASSRKRSRSDRAVTGPSAQHSFEVRVPEQRDALHLPLSWRVKRPRTRIGGGLPDPGTPIAADLA 240

Consensus ASQRWDRILQASGXKRAKPSPTSAQTPDQASLHAFXDSLERDLDAPSPMHEGDQTXASXRKRSRSDRAVTGPSAQHSFEVRVPEQRDALHLPLSWRVKRPRTRIGGGLPDPGTPIAADLA 240

260 280

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ROI\_00014\_iTzDak19-1 ---------------------------------------------- 183

ROI\_00001\_iTzDak19-2 ---------------------------------------------- 183

ROI\_00006\_iTzDak19-2 ---------------------------------------------- 183

ROI\_00013\_iTzDak19-3 ---------------------------------------------- 183

ROI\_00018\_iTzDak19-3 ---------------------------------------------- 183

ROI\_00007\_iTzLuk21-3 ---------------------------------------------- 183

ROI\_00012\_iTzLuk21-3 ---------------------------------------------- 183

ROI\_00013\_iTzLuk21-1 ---------------------------------------------- 183

ROI\_00018\_iTzLuk21-1 ---------------------------------------------- 183

ROI\_00005\_iTzLuk21-4 ---------------------------------------------- 183

ROI\_00006\_iTzLuk21-4 ---------------------------------------------- 183

ROI\_00006\_iTzLuk21-5 ---------------------------------------------- 183

ROI\_00011\_iTzLuk21-5 ---------------------------------------------- 183

ROI\_00013\_iTzLuk21-2 ---------------------------------------------- 183

ROI\_00018\_iTzLuk21-2 ---------------------------------------------- 183

Tal3a\_PXO99A ---------------------------------------------- 183

Tal3b\_PXO99A ---------------------------------------------- 42

PthXo1\_PXO99A ASSTVMWEQDAAPFAGAADDFPAFNEEELAWLMELLPQSGSVGGTI 286

Consensus ASSTVMWEQDAAPFAGAADDFPAFNEEELAWLMELLPQSGSVGGTI 286