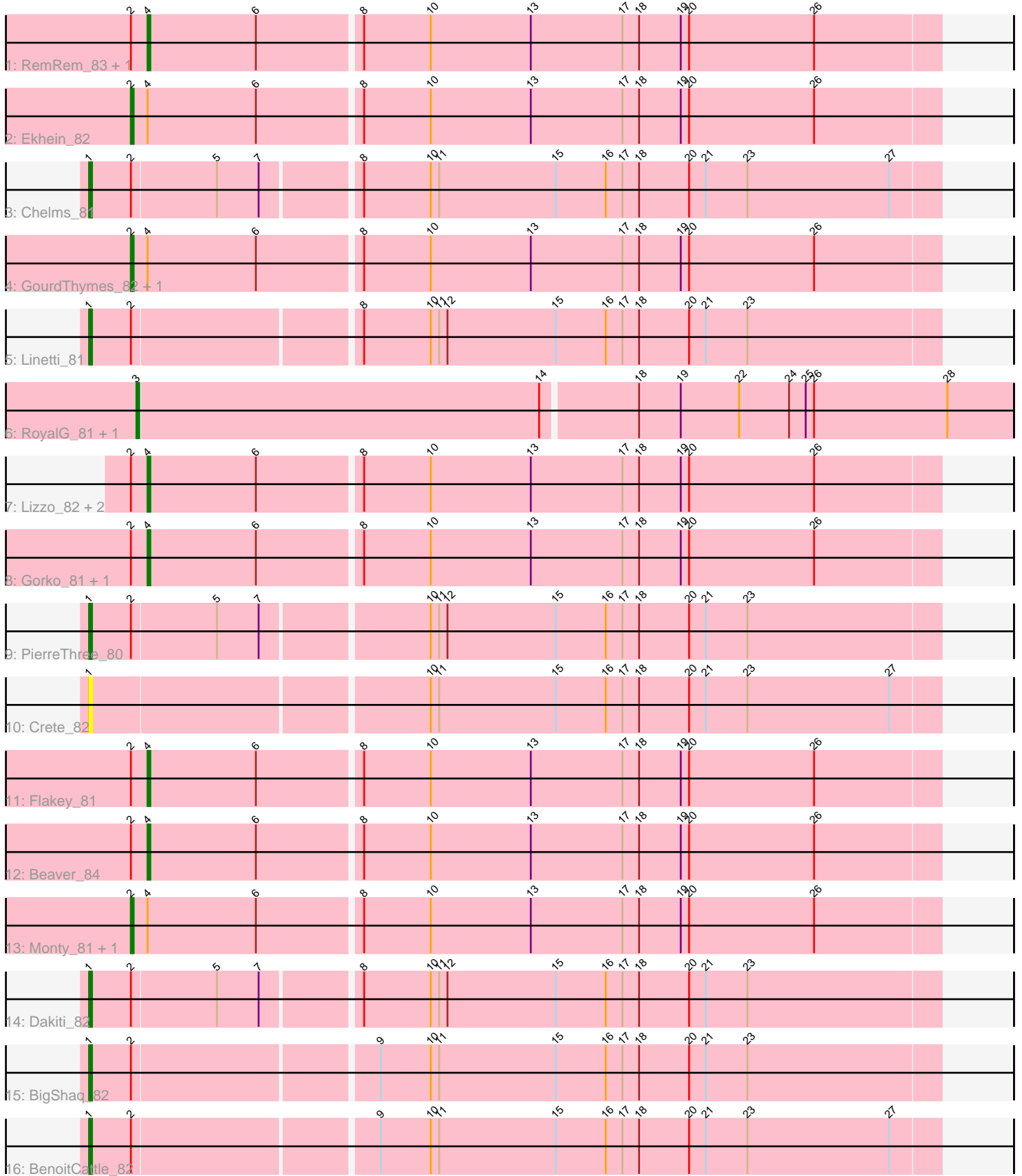


Pham 221743



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 221743 Report

This analysis was run 03/28/25 on database version 593.

Pham number 221743 has 23 members, 4 are drafts.

Phages represented in each track:

- Track 1 : RemRem_83, Squibbles_81
- Track 2 : Ekhein_82
- Track 3 : Chelms_81
- Track 4 : GourdThymes_82, John316_85
- Track 5 : Linetti_81
- Track 6 : RoyalG_81, SteveFrench_80
- Track 7 : Lizzo_82, Barbochs_81, CathyBurgh_81
- Track 8 : Gorko_81, Hotorobo_82
- Track 9 : PierreThree_80
- Track 10 : Crete_82
- Track 11 : Flakey_81
- Track 12 : Beaver_84
- Track 13 : Monty_81, Breezic_82
- Track 14 : Dakiti_82
- Track 15 : BigShaq_82
- Track 16 : BenoitCattle_82

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 4, it was called in 6 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Barbochs_81, Beaver_84, CathyBurgh_81, Flakey_81, Gorko_81, Hotorobo_82, Lizzo_82, RemRem_83, Squibbles_81,

Genes that have the "Most Annotated" start but do not call it:

- Breezic_82, Ekhein_82, GourdThymes_82, John316_85, Monty_81,

Genes that do not have the "Most Annotated" start:

- BenoitCattle_82, BigShaq_82, Chelms_81, Crete_82, Dakiti_82, Linetti_81, PierreThree_80, RoyalG_81, SteveFrench_80,

Summary by start number:

Start 1:

- Found in 7 of 23 (30.4%) of genes in pham
- Manual Annotations of this start: 6 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BenoitCattle_82 (CS2), BigShaq_82 (CS2), Chelms_81 (CS2), Crete_82 (CS2), Dakiti_82 (CS2), Linetti_81 (CS2), PierreThree_80 (CS2),

Start 2:

- Found in 20 of 23 (87.0%) of genes in pham
- Manual Annotations of this start: 5 of 19
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Breezic_82 (CS2), Ekhein_82 (CS2), GourdThymes_82 (CS2), John316_85 (CS2), Monty_81 (CS2),

Start 3:

- Found in 2 of 23 (8.7%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RoyalG_81 (CS2), SteveFrench_80 (CS2),

Start 4:

- Found in 14 of 23 (60.9%) of genes in pham
- Manual Annotations of this start: 6 of 19
- Called 64.3% of time when present
- Phage (with cluster) where this start called: Barbochs_81 (CS2), Beaver_84 (CS2), CathyBurgh_81 (CS2), Flakey_81 (CS2), Gorko_81 (CS2), Hotorobo_82 (CS2), Lizzo_82 (CS2), RemRem_83 (CS2), Squibbles_81 (CS2),

Summary by clusters:

There is one cluster represented in this pham: CS2

Info for manual annotations of cluster CS2:

- Start number 1 was manually annotated 6 times for cluster CS2.
- Start number 2 was manually annotated 5 times for cluster CS2.
- Start number 3 was manually annotated 2 times for cluster CS2.
- Start number 4 was manually annotated 6 times for cluster CS2.

Gene Information:

Gene: Barbochs_81 Start: 61995, Stop: 61714, Start Num: 4

Candidate Starts for Barbochs_81:

(Start: 2 @62001 has 5 MA's), (Start: 4 @61995 has 6 MA's), (6, 61956), (8, 61920), (10, 61896), (13, 61860), (17, 61827), (18, 61821), (19, 61806), (20, 61803), (26, 61758),

Gene: Beaver_84 Start: 63743, Stop: 63462, Start Num: 4

Candidate Starts for Beaver_84:

(Start: 2 @63749 has 5 MA's), (Start: 4 @63743 has 6 MA's), (6, 63704), (8, 63668), (10, 63644), (13, 63608), (17, 63575), (18, 63569), (19, 63554), (20, 63551), (26, 63506),

Gene: BenoitCattle_82 Start: 62681, Stop: 62382, Start Num: 1

Candidate Starts for BenoitCattle_82:

(Start: 1 @62681 has 6 MA's), (Start: 2 @62666 has 5 MA's), (9, 62582), (10, 62564), (11, 62561), (15, 62519), (16, 62501), (17, 62495), (18, 62489), (20, 62471), (21, 62465), (23, 62450), (27, 62399),

Gene: BigShaq_82 Start: 62610, Stop: 62311, Start Num: 1

Candidate Starts for BigShaq_82:

(Start: 1 @62610 has 6 MA's), (Start: 2 @62595 has 5 MA's), (9, 62511), (10, 62493), (11, 62490), (15, 62448), (16, 62430), (17, 62424), (18, 62418), (20, 62400), (21, 62394), (23, 62379),

Gene: Breezic_82 Start: 62212, Stop: 61925, Start Num: 2

Candidate Starts for Breezic_82:

(Start: 2 @62212 has 5 MA's), (Start: 4 @62206 has 6 MA's), (6, 62167), (8, 62131), (10, 62107), (13, 62071), (17, 62038), (18, 62032), (19, 62017), (20, 62014), (26, 61969),

Gene: CathyBurgh_81 Start: 62726, Stop: 62445, Start Num: 4

Candidate Starts for CathyBurgh_81:

(Start: 2 @62732 has 5 MA's), (Start: 4 @62726 has 6 MA's), (6, 62687), (8, 62651), (10, 62627), (13, 62591), (17, 62558), (18, 62552), (19, 62537), (20, 62534), (26, 62489),

Gene: Chelms_81 Start: 62528, Stop: 62229, Start Num: 1

Candidate Starts for Chelms_81:

(Start: 1 @62528 has 6 MA's), (Start: 2 @62513 has 5 MA's), (5, 62483), (7, 62468), (8, 62435), (10, 62411), (11, 62408), (15, 62366), (16, 62348), (17, 62342), (18, 62336), (20, 62318), (21, 62312), (23, 62297), (27, 62246),

Gene: Crete_82 Start: 62923, Stop: 62624, Start Num: 1

Candidate Starts for Crete_82:

(Start: 1 @62923 has 6 MA's), (10, 62806), (11, 62803), (15, 62761), (16, 62743), (17, 62737), (18, 62731), (20, 62713), (21, 62707), (23, 62692), (27, 62641),

Gene: Dakiti_82 Start: 63326, Stop: 63027, Start Num: 1

Candidate Starts for Dakiti_82:

(Start: 1 @63326 has 6 MA's), (Start: 2 @63311 has 5 MA's), (5, 63281), (7, 63266), (8, 63233), (10, 63209), (11, 63206), (12, 63203), (15, 63164), (16, 63146), (17, 63140), (18, 63134), (20, 63116), (21, 63110), (23, 63095),

Gene: Ekhein_82 Start: 61902, Stop: 61615, Start Num: 2

Candidate Starts for Ekhein_82:

(Start: 2 @61902 has 5 MA's), (Start: 4 @61896 has 6 MA's), (6, 61857), (8, 61821), (10, 61797), (13, 61761), (17, 61728), (18, 61722), (19, 61707), (20, 61704), (26, 61659),

Gene: Flakey_81 Start: 62712, Stop: 62431, Start Num: 4

Candidate Starts for Flakey_81:

(Start: 2 @62718 has 5 MA's), (Start: 4 @62712 has 6 MA's), (6, 62673), (8, 62637), (10, 62613), (13, 62577), (17, 62544), (18, 62538), (19, 62523), (20, 62520), (26, 62475),

Gene: Gorko_81 Start: 61813, Stop: 61532, Start Num: 4

Candidate Starts for Gorko_81:

(Start: 2 @61819 has 5 MA's), (Start: 4 @61813 has 6 MA's), (6, 61774), (8, 61738), (10, 61714), (13, 61678), (17, 61645), (18, 61639), (19, 61624), (20, 61621), (26, 61576),

Gene: GourdThymes_82 Start: 62759, Stop: 62472, Start Num: 2

Candidate Starts for GourdThymes_82:

(Start: 2 @62759 has 5 MA's), (Start: 4 @62753 has 6 MA's), (6, 62714), (8, 62678), (10, 62654), (13, 62618), (17, 62585), (18, 62579), (19, 62564), (20, 62561), (26, 62516),

Gene: Hotorobo_82 Start: 62776, Stop: 62495, Start Num: 4

Candidate Starts for Hotorobo_82:

(Start: 2 @62782 has 5 MA's), (Start: 4 @62776 has 6 MA's), (6, 62737), (8, 62701), (10, 62677), (13, 62641), (17, 62608), (18, 62602), (19, 62587), (20, 62584), (26, 62539),

Gene: John316_85 Start: 63870, Stop: 63583, Start Num: 2

Candidate Starts for John316_85:

(Start: 2 @63870 has 5 MA's), (Start: 4 @63864 has 6 MA's), (6, 63825), (8, 63789), (10, 63765), (13, 63729), (17, 63696), (18, 63690), (19, 63675), (20, 63672), (26, 63627),

Gene: Linetti_81 Start: 63553, Stop: 63254, Start Num: 1

Candidate Starts for Linetti_81:

(Start: 1 @63553 has 6 MA's), (Start: 2 @63538 has 5 MA's), (8, 63460), (10, 63436), (11, 63433), (12, 63430), (15, 63391), (16, 63373), (17, 63367), (18, 63361), (20, 63343), (21, 63337), (23, 63322),

Gene: Lizzo_82 Start: 62726, Stop: 62445, Start Num: 4

Candidate Starts for Lizzo_82:

(Start: 2 @62732 has 5 MA's), (Start: 4 @62726 has 6 MA's), (6, 62687), (8, 62651), (10, 62627), (13, 62591), (17, 62558), (18, 62552), (19, 62537), (20, 62534), (26, 62489),

Gene: Monty_81 Start: 61945, Stop: 61658, Start Num: 2

Candidate Starts for Monty_81:

(Start: 2 @61945 has 5 MA's), (Start: 4 @61939 has 6 MA's), (6, 61900), (8, 61864), (10, 61840), (13, 61804), (17, 61771), (18, 61765), (19, 61750), (20, 61747), (26, 61702),

Gene: PierreThree_80 Start: 62957, Stop: 62658, Start Num: 1

Candidate Starts for PierreThree_80:

(Start: 1 @62957 has 6 MA's), (Start: 2 @62942 has 5 MA's), (5, 62912), (7, 62897), (10, 62840), (11, 62837), (12, 62834), (15, 62795), (16, 62777), (17, 62771), (18, 62765), (20, 62747), (21, 62741), (23, 62726),

Gene: RemRem_83 Start: 61879, Stop: 61598, Start Num: 4

Candidate Starts for RemRem_83:

(Start: 2 @61885 has 5 MA's), (Start: 4 @61879 has 6 MA's), (6, 61840), (8, 61804), (10, 61780), (13, 61744), (17, 61711), (18, 61705), (19, 61690), (20, 61687), (26, 61642),

Gene: RoyalG_81 Start: 62241, Stop: 61930, Start Num: 3

Candidate Starts for RoyalG_81:

(Start: 3 @62241 has 2 MA's), (14, 62097), (18, 62064), (19, 62049), (22, 62028), (24, 62010), (25, 62004), (26, 62001), (28, 61953),

Gene: Squibbles_81 Start: 62756, Stop: 62475, Start Num: 4

Candidate Starts for Squibbles_81:

(Start: 2 @62762 has 5 MA's), (Start: 4 @62756 has 6 MA's), (6, 62717), (8, 62681), (10, 62657), (13, 62621), (17, 62588), (18, 62582), (19, 62567), (20, 62564), (26, 62519),

Gene: SteveFrench_80 Start: 62481, Stop: 62170, Start Num: 3

Candidate Starts for SteveFrench_80:

(Start: 3 @62481 has 2 MA's), (14, 62337), (18, 62304), (19, 62289), (22, 62268), (24, 62250), (25, 62244), (26, 62241), (28, 62193),