

| Nucleotides | -4 -4 | -5 -1 | 1 -2 -2 -1 | 2 -2 -5 -4 | 3 -2 -4 -4 | 5 -1 -8 -4 | 5 -2 -8 -3 | 5 -3 -8 -2 | 5 -4 -6 -4 |
|-----------------|-------|-------|------------|------------|------------|------------|------------|------------|------------|
| True targets | | | | | | | | | |
| 1 | 0.598 | 0.597 | 0.452 | 0.427 | 0.608 | 0.634 | 0.641 | 0.652 | 0.673 |
| 2 | 0.619 | 0.618 | 0.588 | 0.562 | 0.712 | 0.703 | 0.724 | 0.718 | 0.741 |
| 3 | 0.614 | 0.613 | 0.628 | 0.599 | 0.727 | 0.718 | 0.717 | 0.716 | 0.735 |
| 4 | 0.635 | 0.634 | 0.664 | 0.650 | 0.725 | 0.730 | 0.729 | 0.713 | 0.724 |
| 5 | 0.626 | 0.625 | 0.678 | 0.676 | 0.740 | 0.698 | 0.716 | 0.701 | 0.734 |
| 6 | 0.637 | 0.636 | 0.710 | 0.694 | 0.742 | 0.716 | 0.723 | 0.701 | 0.729 |
| 7 | 0.627 | 0.625 | 0.720 | 0.718 | 0.732 | 0.699 | 0.724 | 0.700 | 0.705 |
| 8 | 0.621 | 0.620 | 0.712 | 0.731 | 0.712 | 0.682 | 0.685 | 0.683 | 0.707 |
| 9 | 0.588 | 0.588 | 0.651 | 0.669 | 0.692 | 0.633 | 0.649 | 0.652 | 0.689 |
| 10 | 0.577 | 0.577 | 0.626 | 0.662 | 0.687 | 0.628 | 0.643 | 0.638 | 0.679 |
| 11 | 0.599 | 0.599 | 0.626 | 0.655 | 0.701 | 0.657 | 0.672 | 0.649 | 0.689 |
| 12 | 0.582 | 0.581 | 0.608 | 0.647 | 0.690 | 0.654 | 0.662 | 0.648 | 0.681 |
| 13 | 0.601 | 0.601 | 0.598 | 0.643 | 0.696 | 0.659 | 0.668 | 0.666 | 0.698 |
| 14 | 0.570 | 0.569 | 0.591 | 0.624 | 0.683 | 0.660 | 0.673 | 0.669 | 0.688 |
| 15 | 0.600 | 0.600 | 0.555 | 0.595 | 0.700 | 0.666 | 0.669 | 0.683 | 0.698 |
| 16 | 0.590 | 0.590 | 0.527 | 0.557 | 0.667 | 0.645 | 0.664 | 0.673 | 0.695 |
| 17 | 0.580 | 0.579 | 0.487 | 0.522 | 0.657 | 0.641 | 0.661 | 0.673 | 0.673 |
| 18 | 0.598 | 0.598 | 0.452 | 0.508 | 0.666 | 0.668 | 0.684 | 0.702 | 0.685 |
| 19 | 0.573 | 0.574 | 0.399 | 0.447 | 0.634 | 0.655 | 0.654 | 0.672 | 0.654 |
| 20 | 0.582 | 0.583 | 0.360 | 0.392 | 0.586 | 0.647 | 0.649 | 0.636 | 0.609 |
| 21 | 0.560 | 0.559 | 0.332 | 0.358 | 0.512 | 0.619 | 0.598 | 0.565 | 0.547 |
| 22 | 0.497 | 0.498 | 0.267 | 0.280 | 0.444 | 0.516 | 0.494 | 0.473 | 0.466 |
| Average | 0.594 | 0.594 | 0.556 | 0.573 | 0.669 | 0.660 | 0.668 | 0.663 | 0.677 |
| Average 2 - 8 | 0.625 | 0.624 | 0.671 | 0.661 | 0.727 | 0.707 | 0.717 | 0.704 | 0.725 |
| Average 13 - 16 | 0.591 | 0.590 | 0.568 | 0.605 | 0.686 | 0.658 | 0.669 | 0.673 | 0.695 |

| | | | | | | | | | |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Negative control | | | | | | | | | |
| 1 | 0.599 | 0.599 | 0.401 | 0.383 | 0.560 | 0.601 | 0.595 | 0.628 | 0.615 |
| 2 | 0.625 | 0.624 | 0.447 | 0.445 | 0.639 | 0.679 | 0.676 | 0.671 | 0.676 |
| 3 | 0.605 | 0.604 | 0.515 | 0.518 | 0.674 | 0.693 | 0.715 | 0.668 | 0.683 |
| 4 | 0.579 | 0.579 | 0.529 | 0.549 | 0.686 | 0.660 | 0.681 | 0.658 | 0.709 |
| 5 | 0.638 | 0.638 | 0.570 | 0.583 | 0.685 | 0.688 | 0.696 | 0.689 | 0.697 |
| 6 | 0.612 | 0.612 | 0.599 | 0.614 | 0.695 | 0.643 | 0.666 | 0.675 | 0.701 |
| 7 | 0.593 | 0.593 | 0.633 | 0.627 | 0.710 | 0.680 | 0.690 | 0.687 | 0.722 |
| 8 | 0.597 | 0.597 | 0.658 | 0.697 | 0.701 | 0.657 | 0.697 | 0.701 | 0.721 |
| 9 | 0.603 | 0.602 | 0.660 | 0.685 | 0.698 | 0.624 | 0.646 | 0.654 | 0.669 |
| 10 | 0.561 | 0.561 | 0.667 | 0.682 | 0.722 | 0.651 | 0.671 | 0.665 | 0.703 |
| 11 | 0.642 | 0.642 | 0.667 | 0.683 | 0.700 | 0.663 | 0.663 | 0.671 | 0.722 |
| 12 | 0.590 | 0.591 | 0.637 | 0.683 | 0.727 | 0.667 | 0.697 | 0.705 | 0.723 |
| 13 | 0.617 | 0.617 | 0.646 | 0.671 | 0.685 | 0.670 | 0.698 | 0.677 | 0.681 |
| 14 | 0.595 | 0.595 | 0.629 | 0.649 | 0.726 | 0.674 | 0.687 | 0.684 | 0.716 |
| 15 | 0.600 | 0.600 | 0.587 | 0.639 | 0.720 | 0.684 | 0.684 | 0.678 | 0.709 |
| 16 | 0.631 | 0.631 | 0.565 | 0.606 | 0.707 | 0.692 | 0.691 | 0.684 | 0.709 |
| 17 | 0.599 | 0.599 | 0.522 | 0.590 | 0.668 | 0.662 | 0.681 | 0.663 | 0.683 |
| 18 | 0.558 | 0.557 | 0.481 | 0.498 | 0.652 | 0.623 | 0.626 | 0.642 | 0.646 |
| 19 | 0.502 | 0.501 | 0.410 | 0.426 | 0.555 | 0.578 | 0.584 | 0.605 | 0.598 |
| 20 | 0.498 | 0.498 | 0.333 | 0.376 | 0.542 | 0.589 | 0.567 | 0.590 | 0.562 |
| 21 | 0.462 | 0.462 | 0.276 | 0.321 | 0.451 | 0.522 | 0.496 | 0.491 | 0.477 |
| 22 | 0.340 | 0.340 | 0.194 | 0.219 | 0.314 | 0.369 | 0.349 | 0.350 | 0.342 |
| Average | 0.575 | 0.575 | 0.528 | 0.552 | 0.646 | 0.635 | 0.643 | 0.643 | 0.657 |
| Average 2 - 8 | 0.607 | 0.607 | 0.564 | 0.576 | 0.684 | 0.671 | 0.689 | 0.679 | 0.701 |
| Average 13 - 16 | 0.611 | 0.611 | 0.607 | 0.641 | 0.710 | 0.680 | 0.690 | 0.681 | 0.704 |