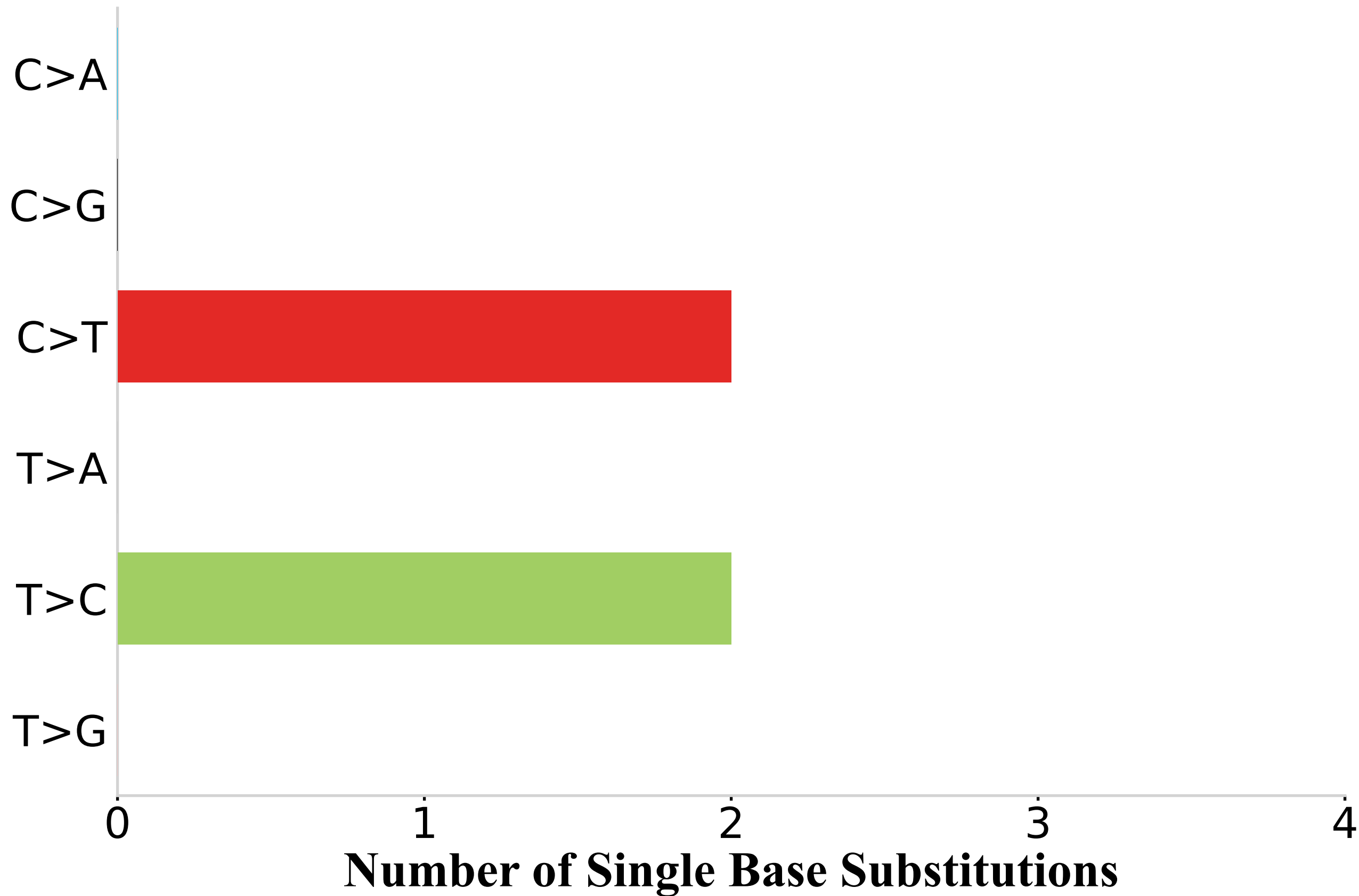


P-0000025-T02-IM5: 2 subs



P-0000060-T01-IM3: 4 subs



P-0000105-T01-IM3: 7 subs

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T>G

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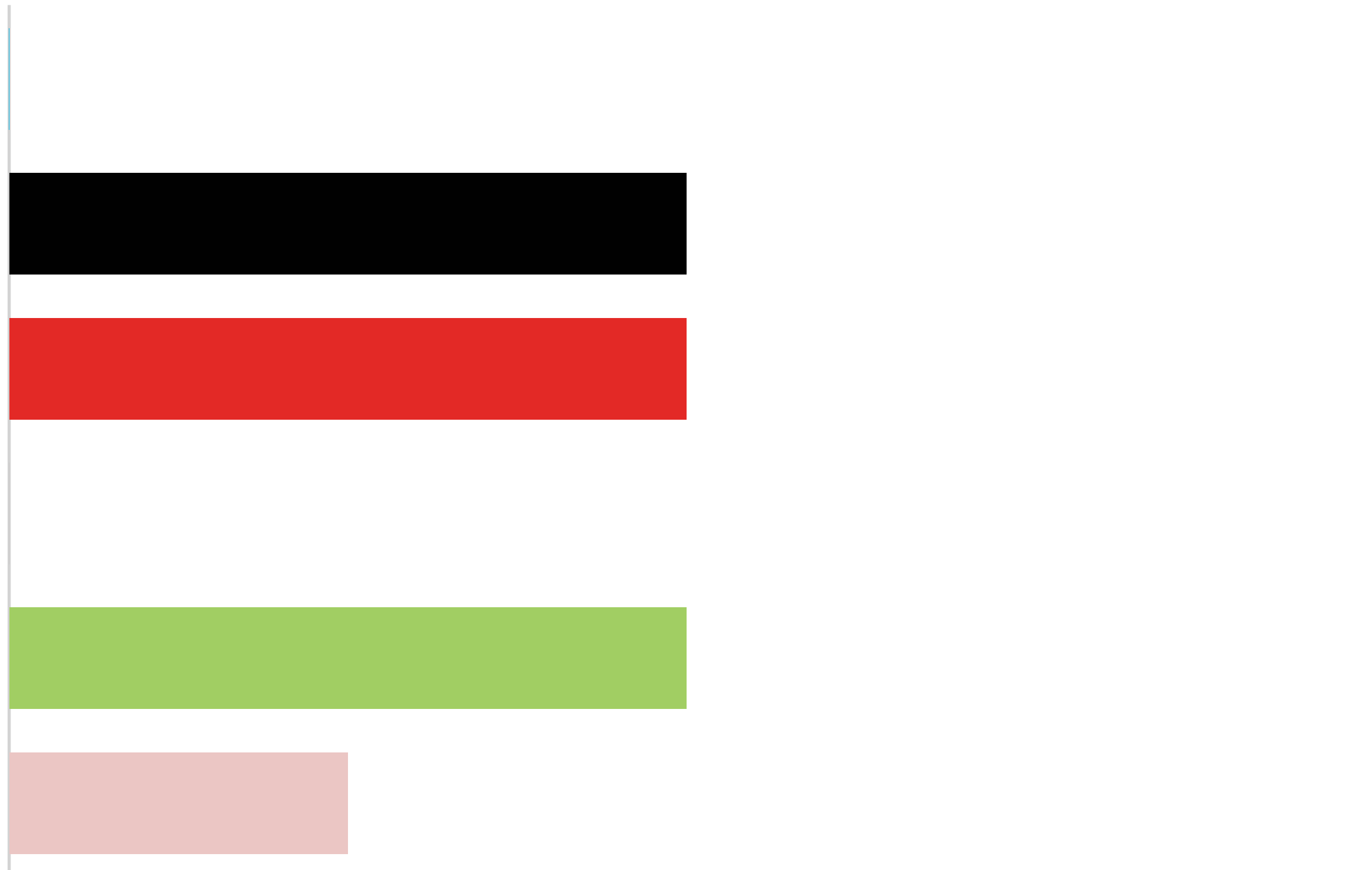
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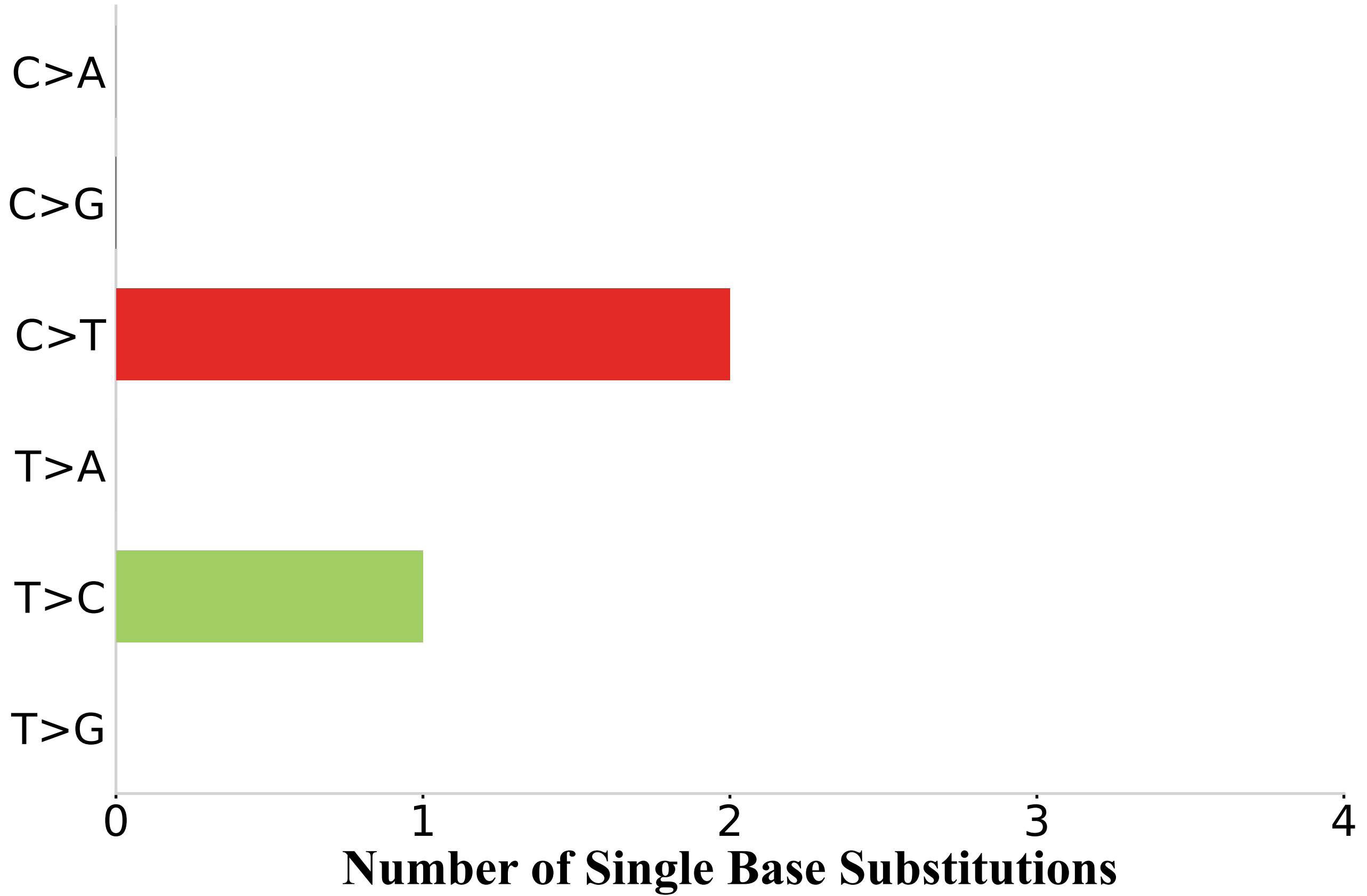
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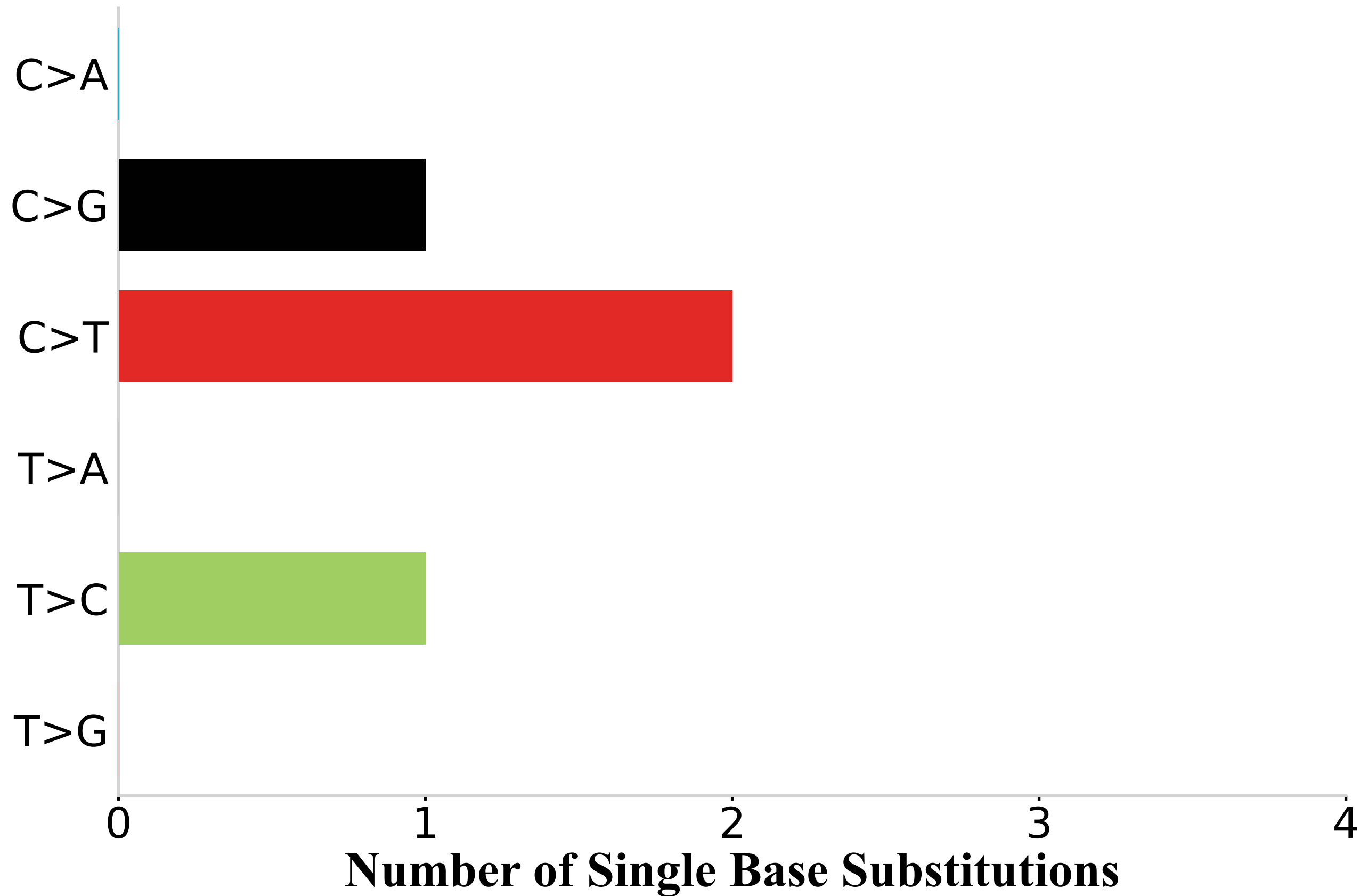
Number of Single Base Substitutions



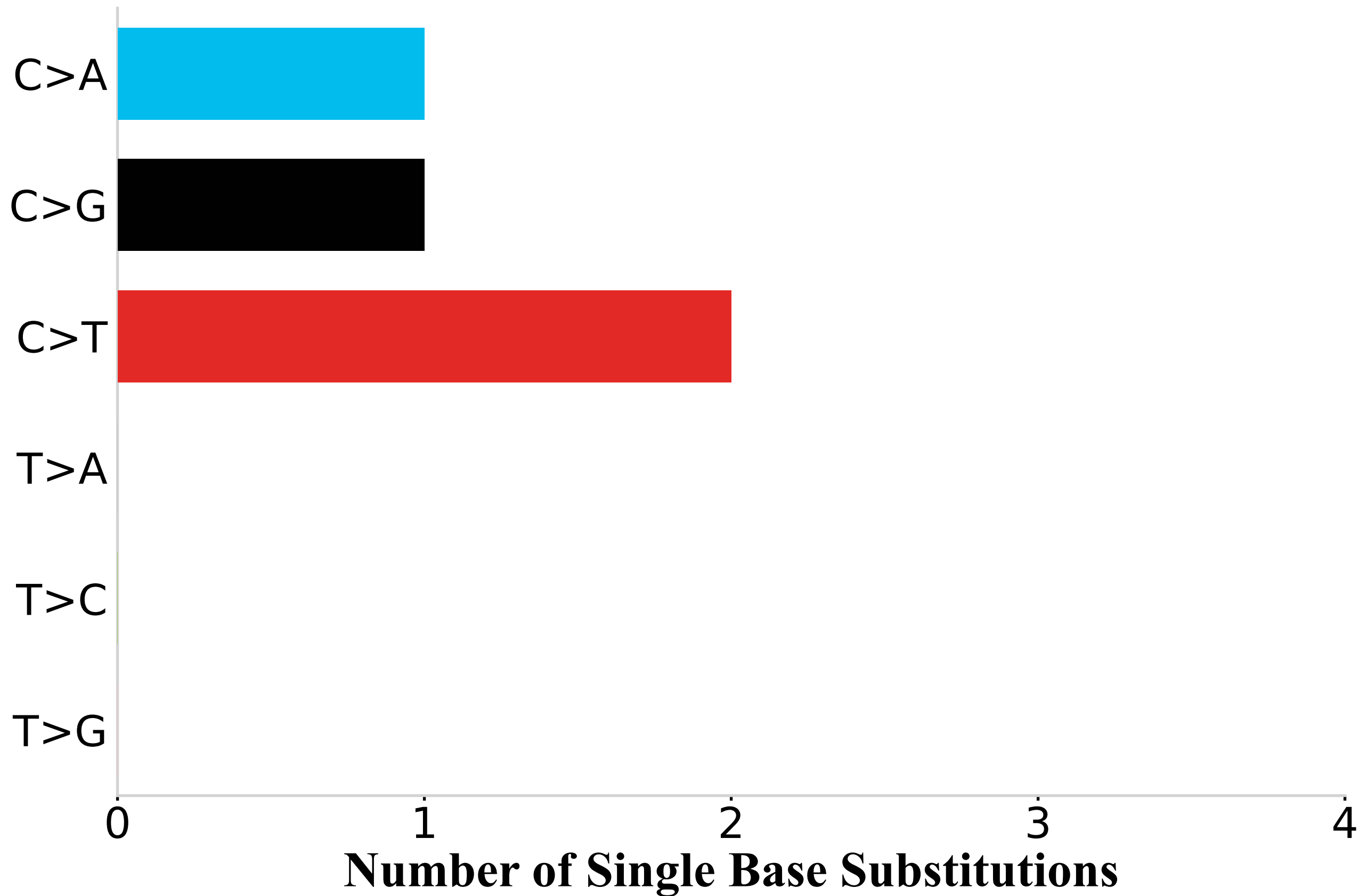
P-0000156-T01-IM3: 3 subs



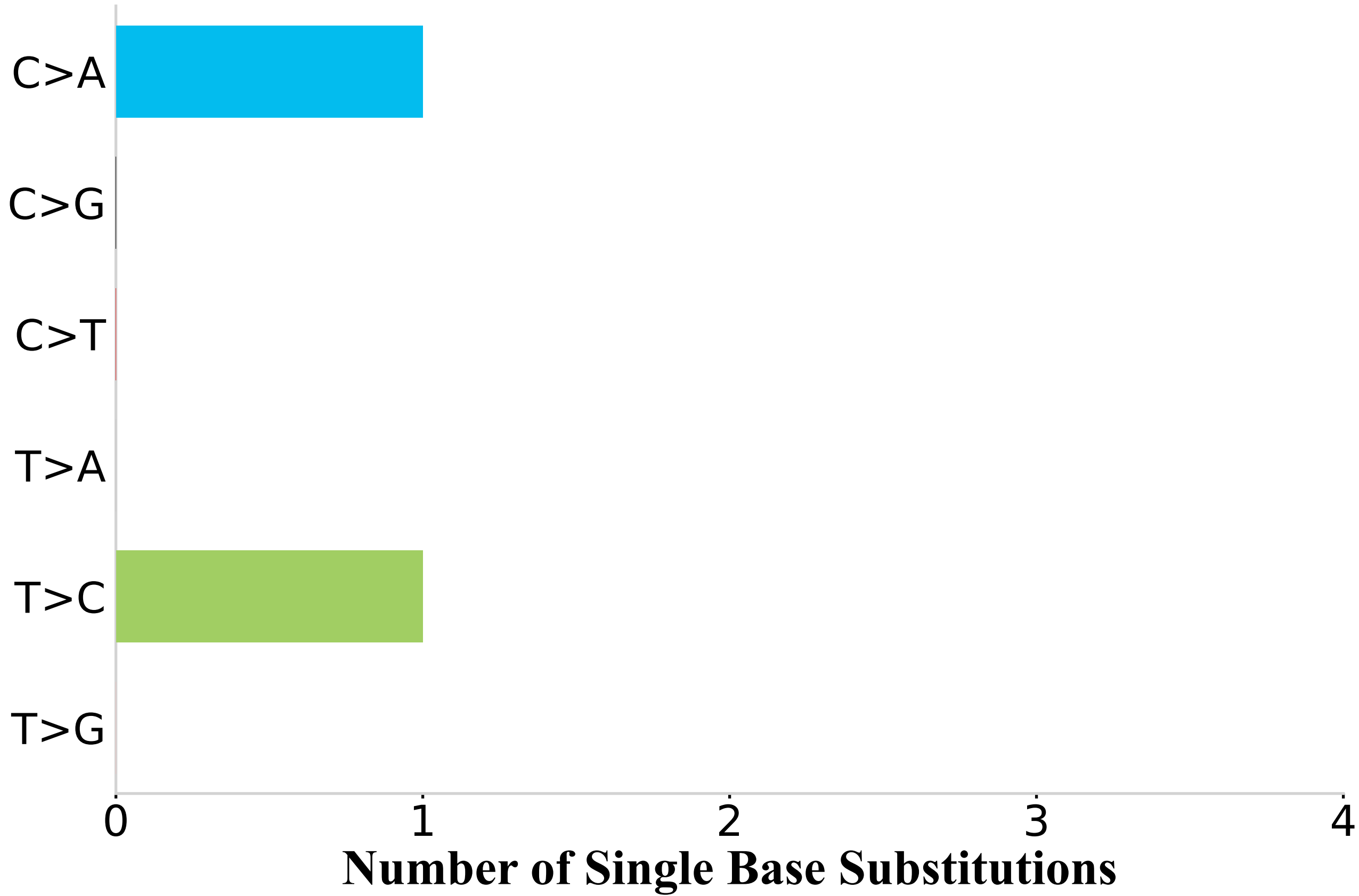
P-0000230-T01-IM3: 4 subs



P-0000343-T01-IM3: 4 subs



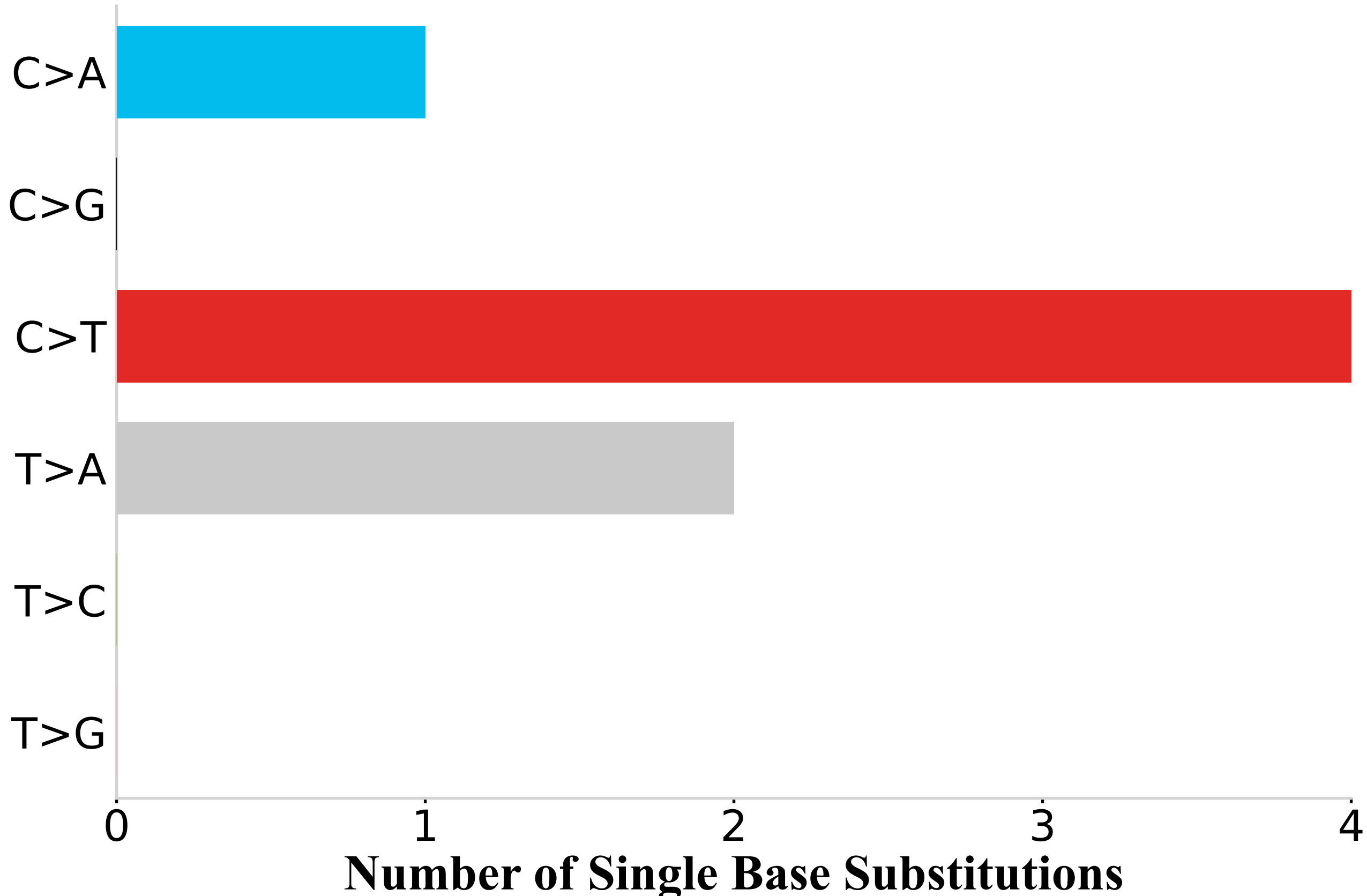
P-0000416-T01-IM3: 2 subs



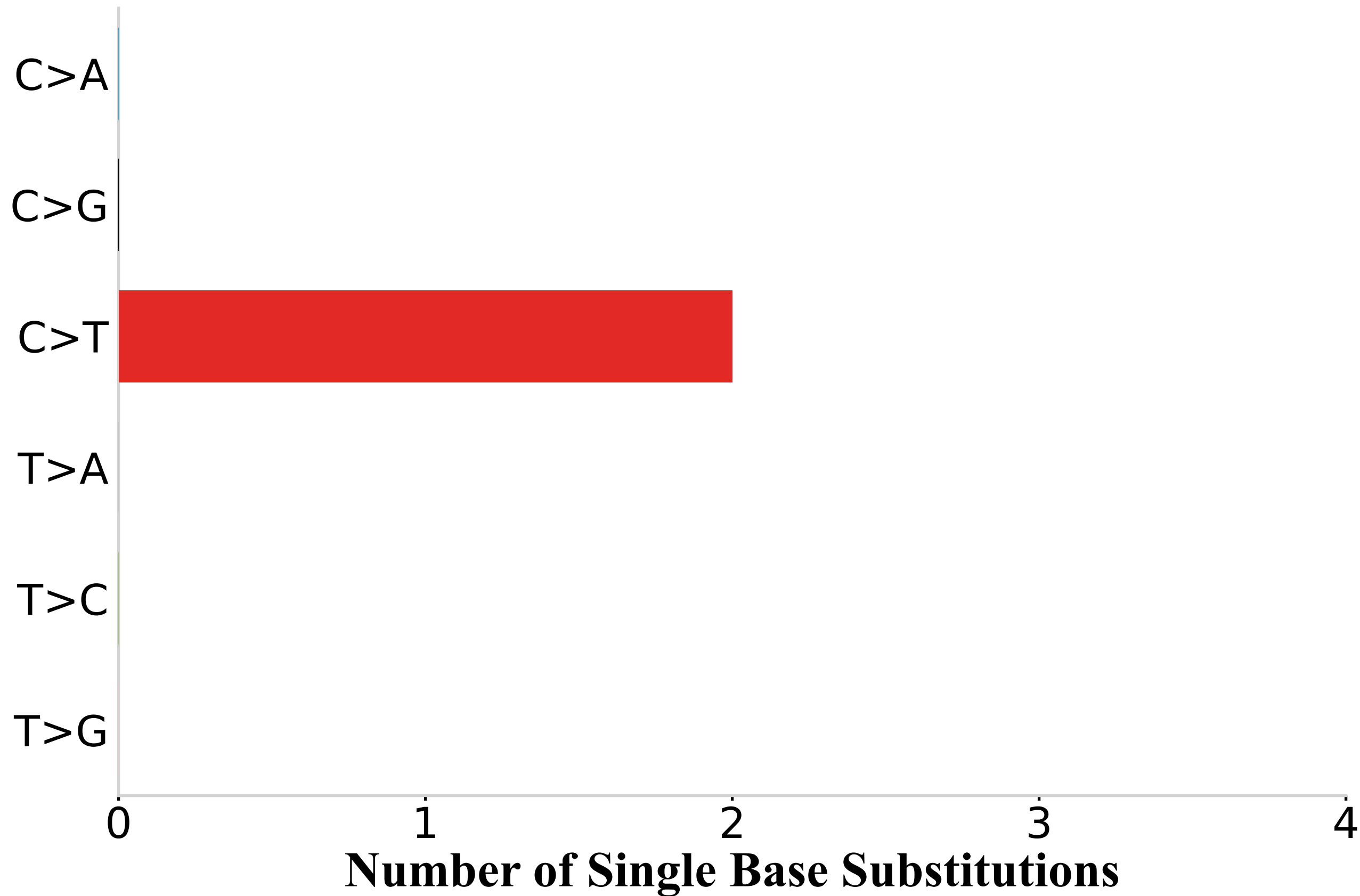
P-0000578-T01-IM3: 1 subs



P-0001005-T01-IM3: 7 subs



P-0001094-T01-IM3: 2 subs



P-0001460-T01-IM3: 2 subs

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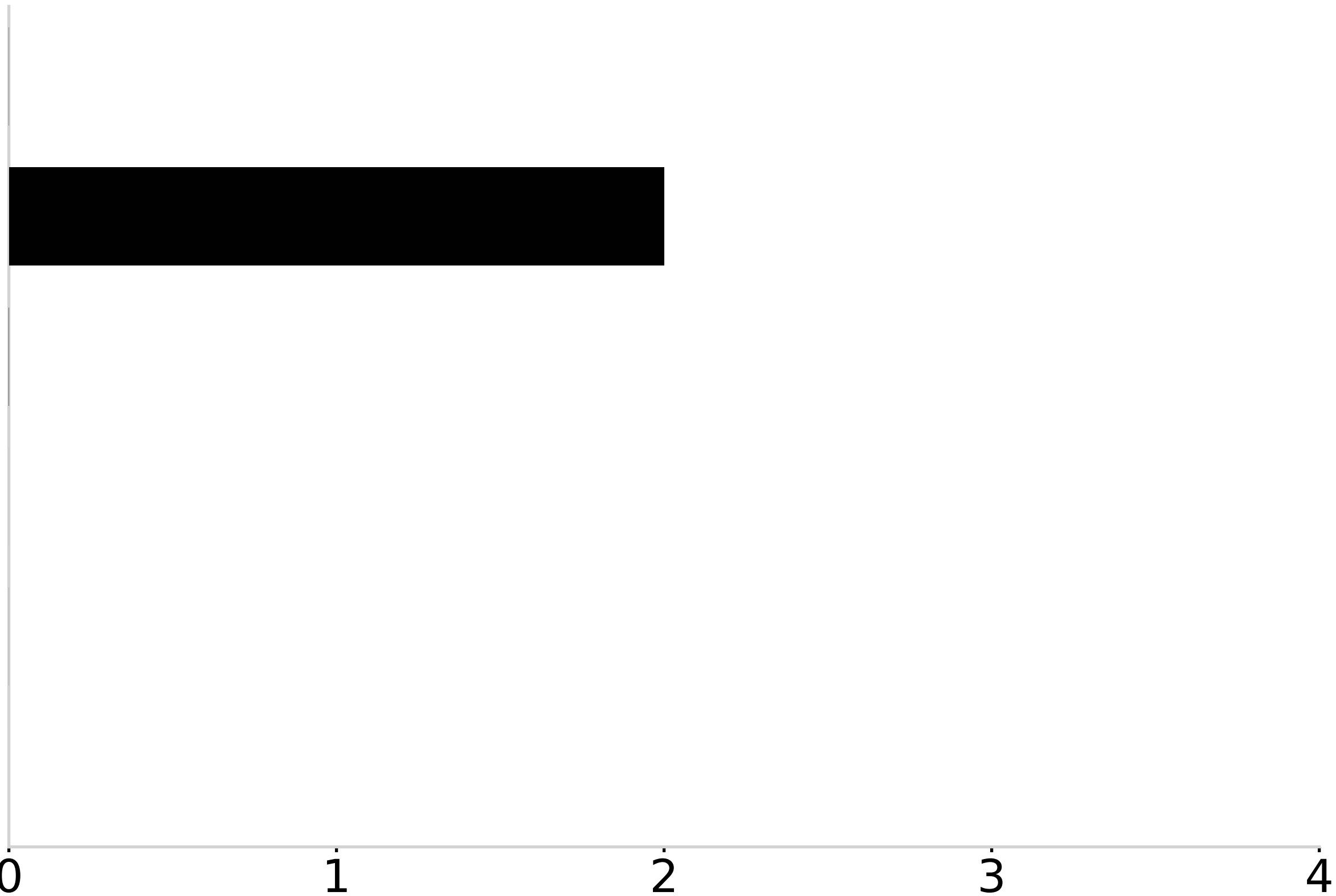
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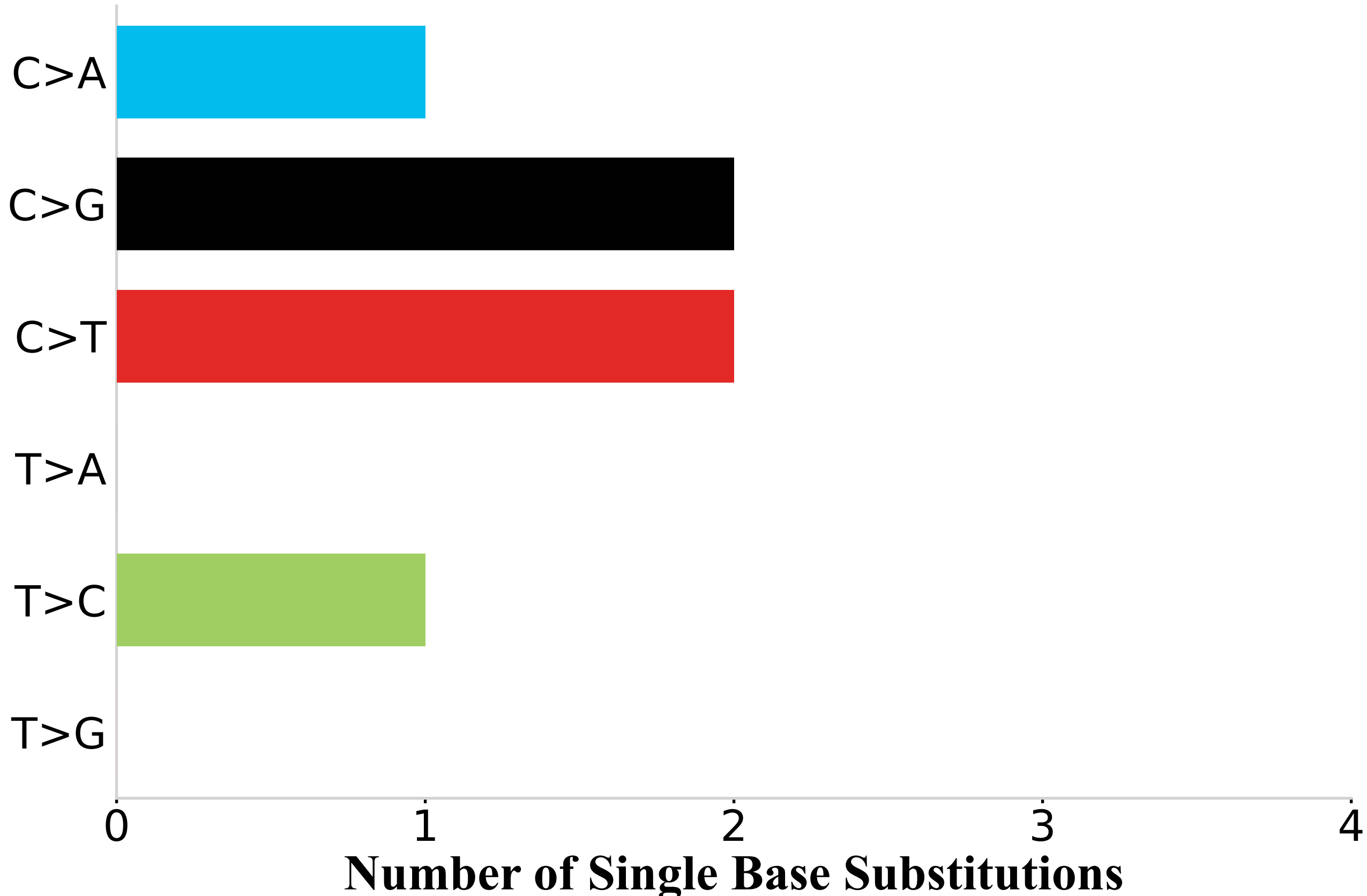
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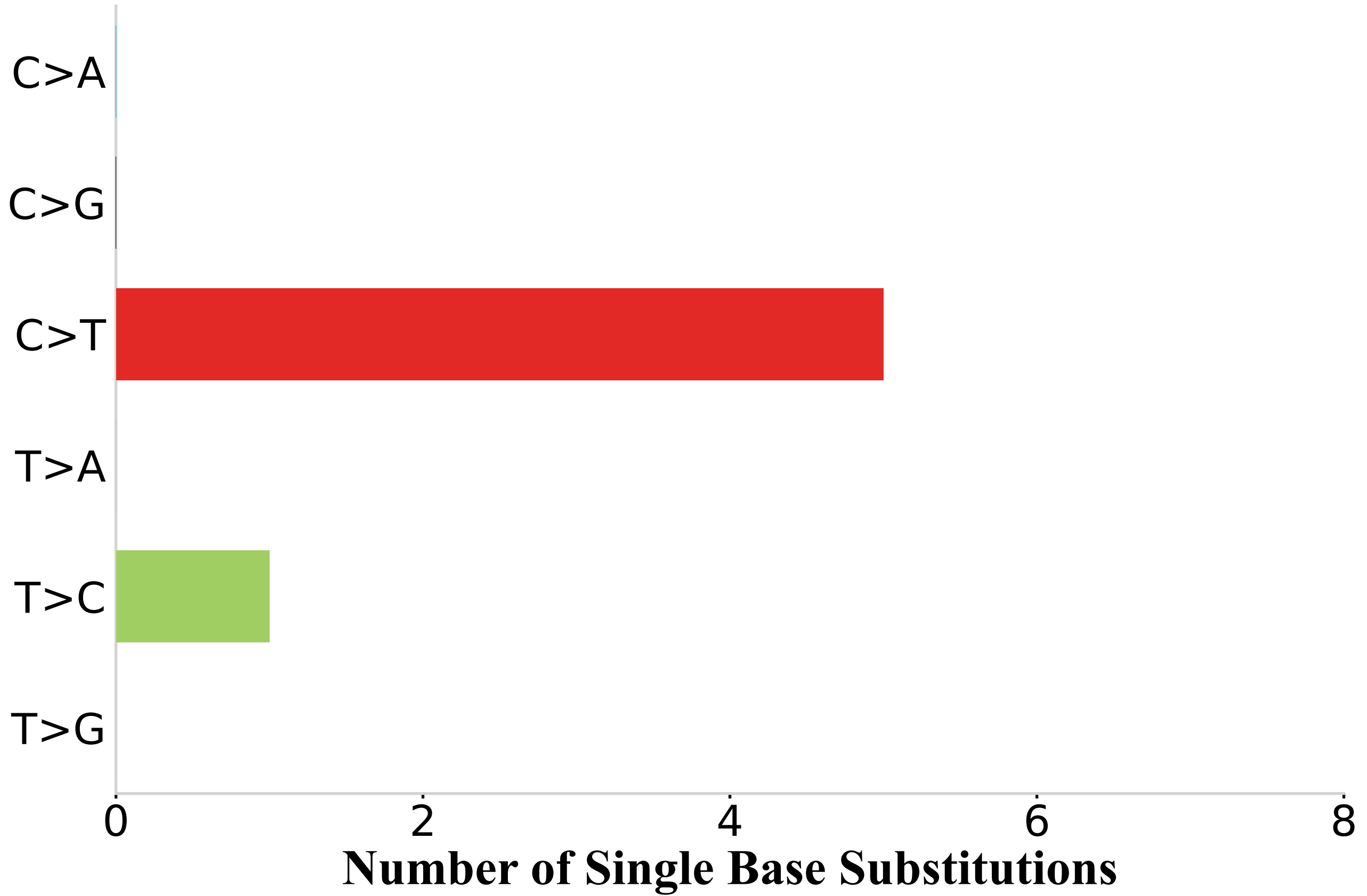
Number of Single Base Substitutions



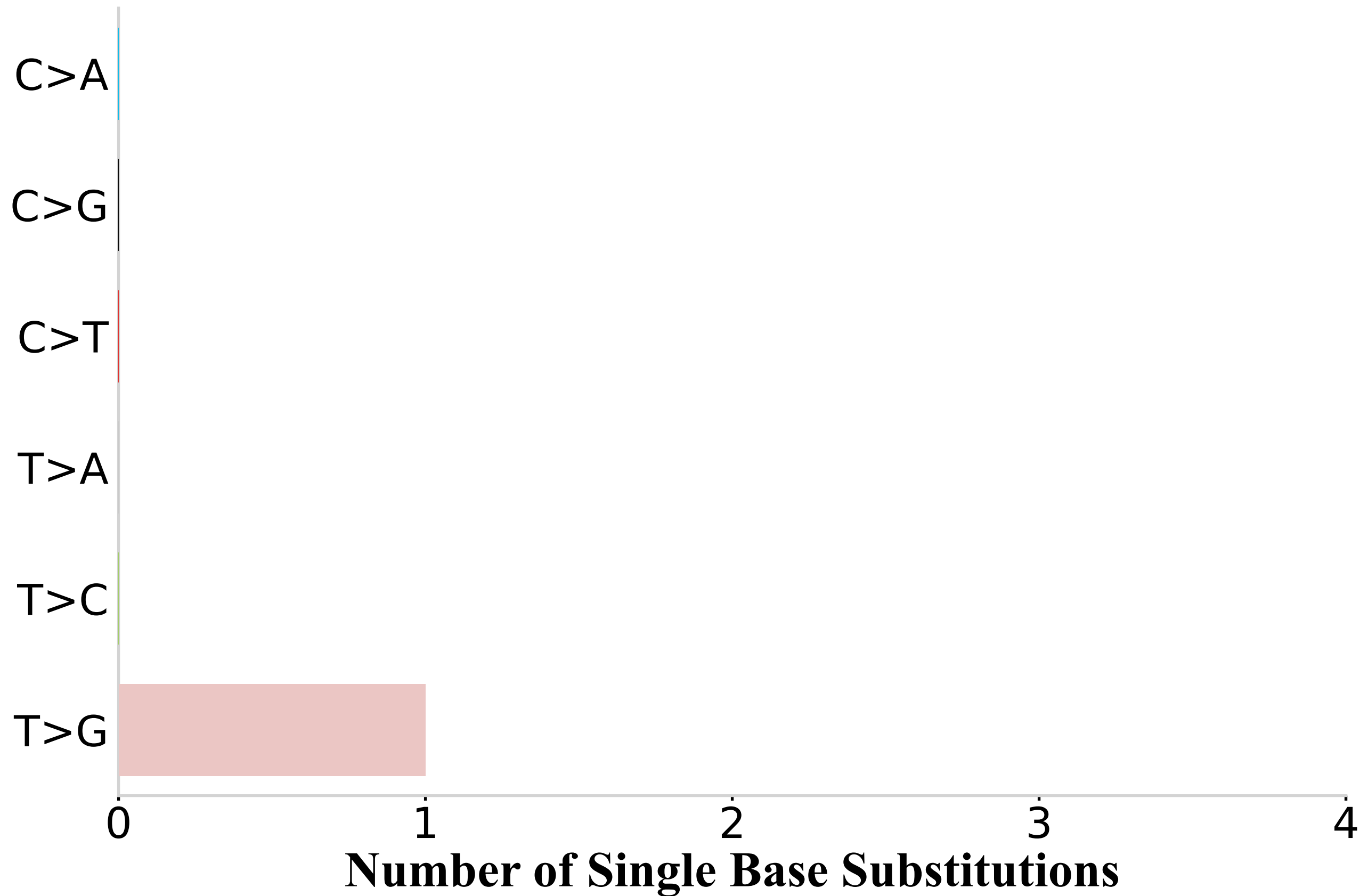
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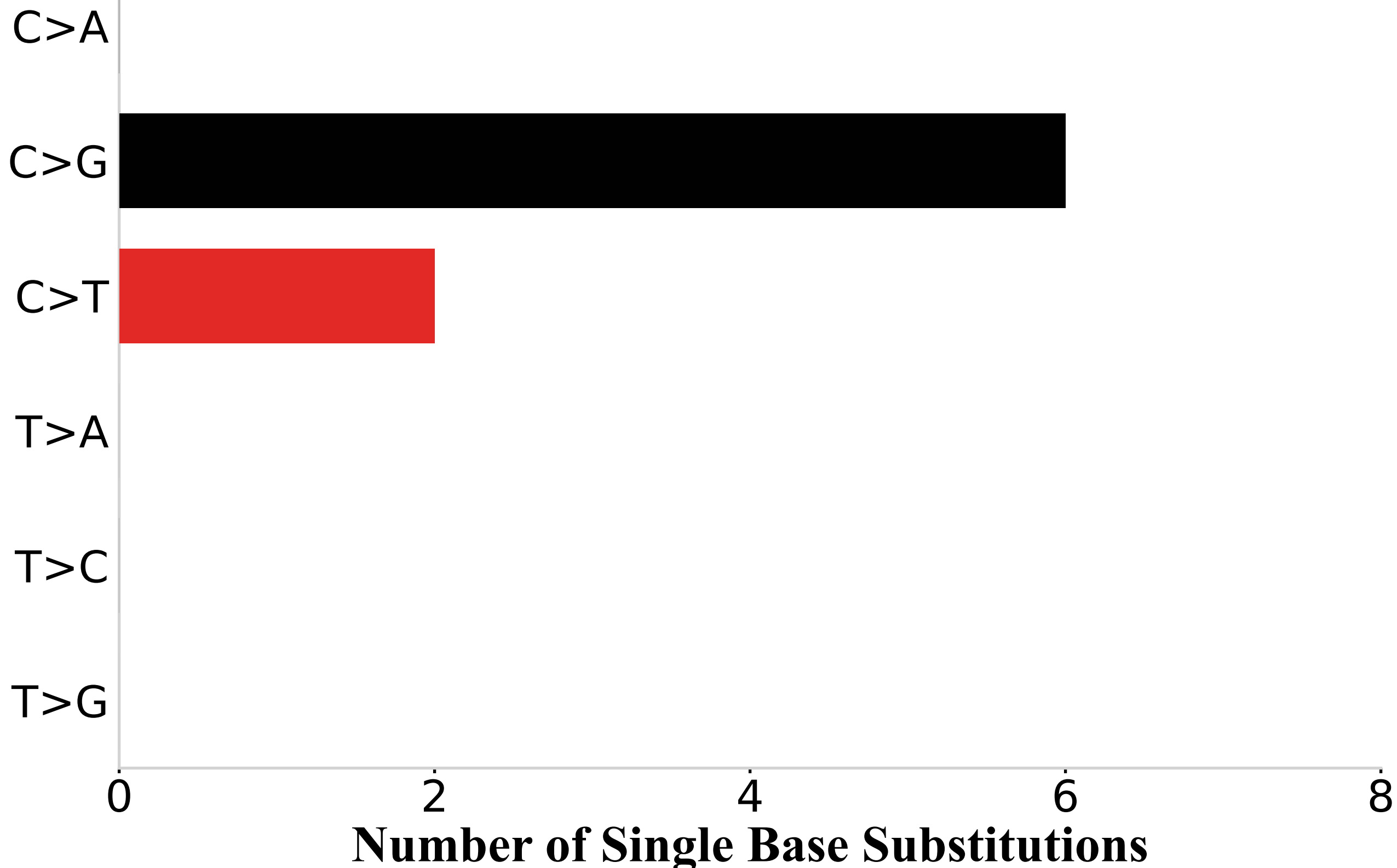
P-0002142-T01-IM3: 6 subs



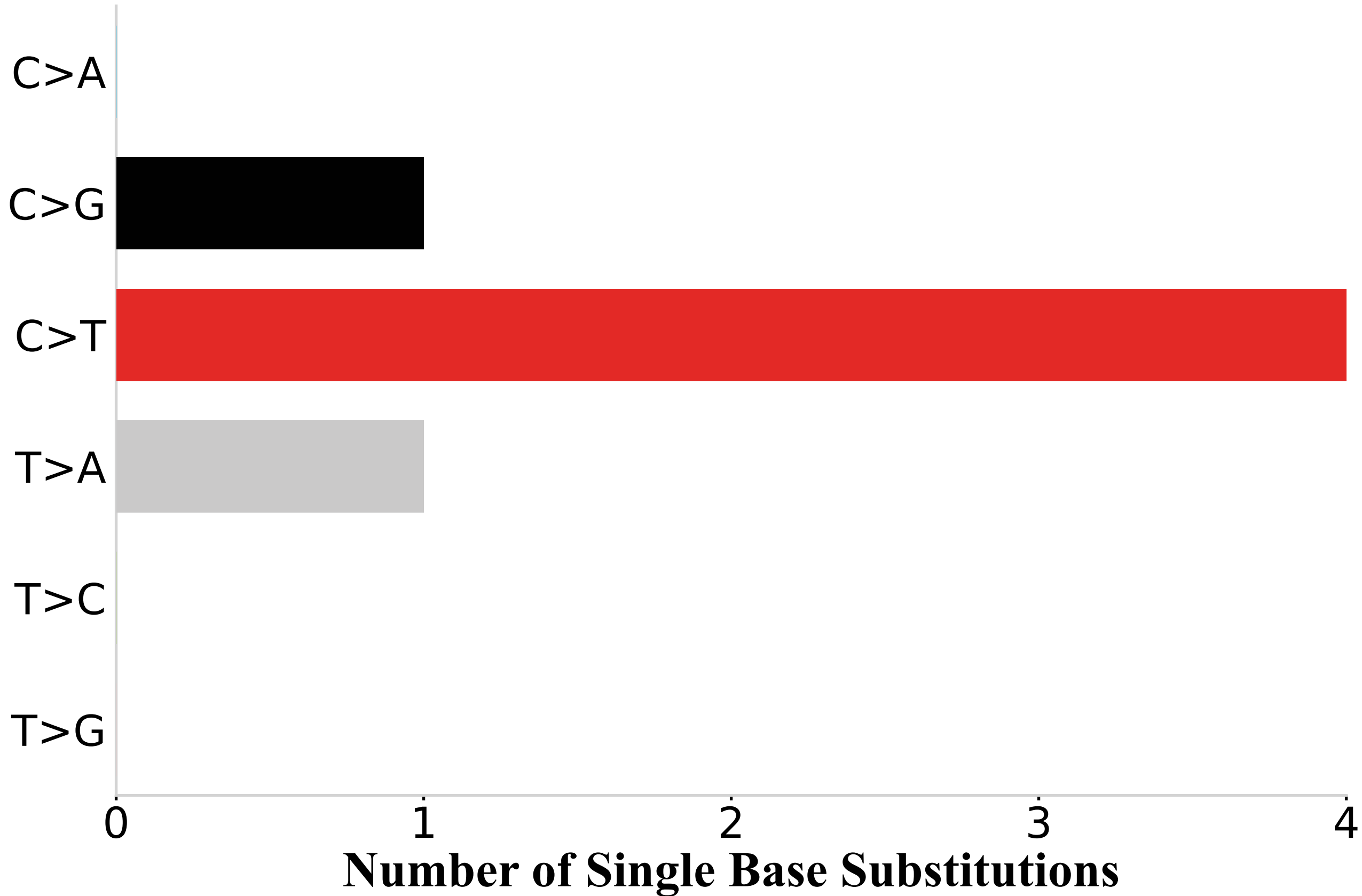
P-0002249-T01-IM3: 1 subs



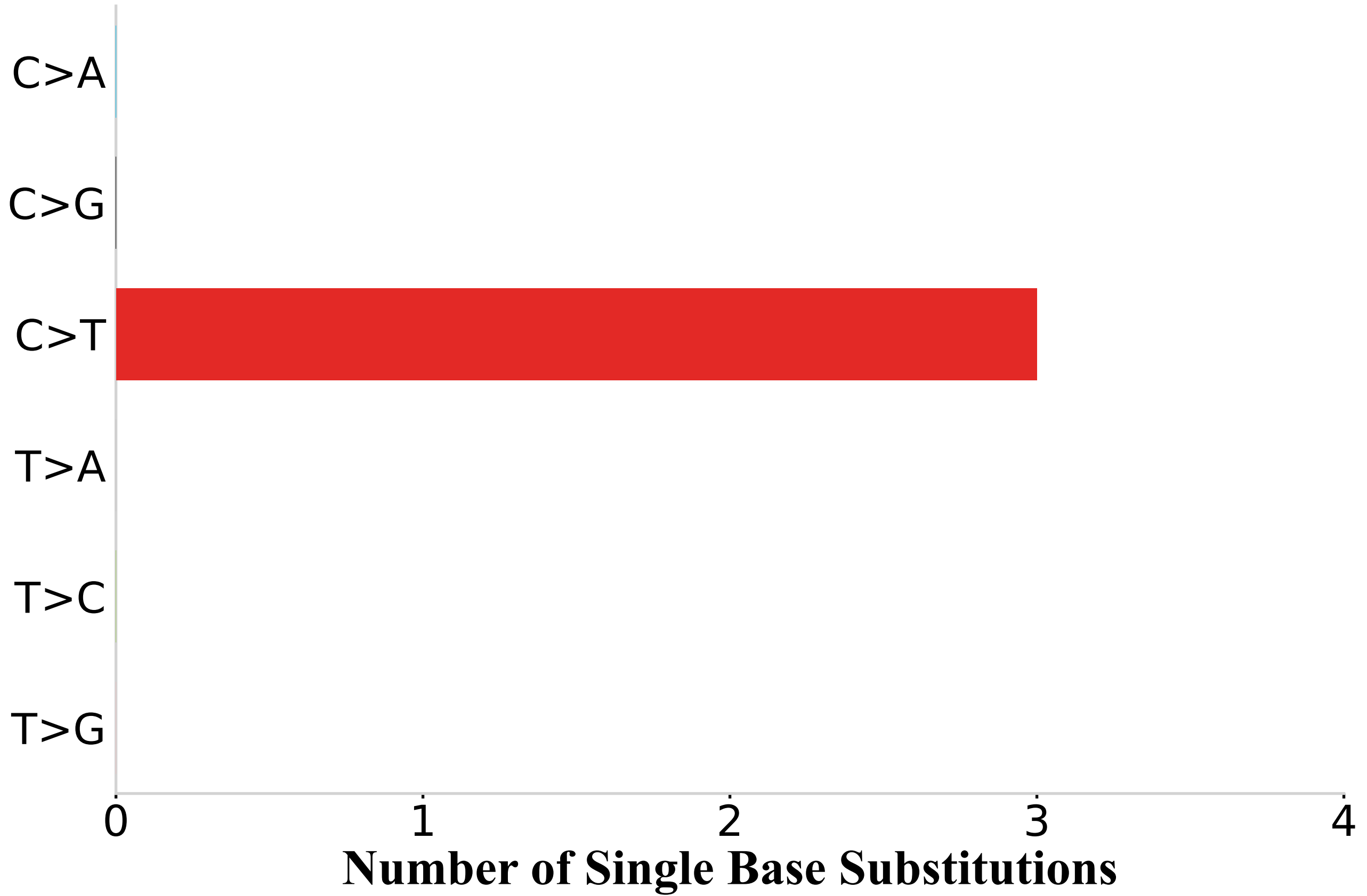
P-0002315-T01-IM3: 8 subs



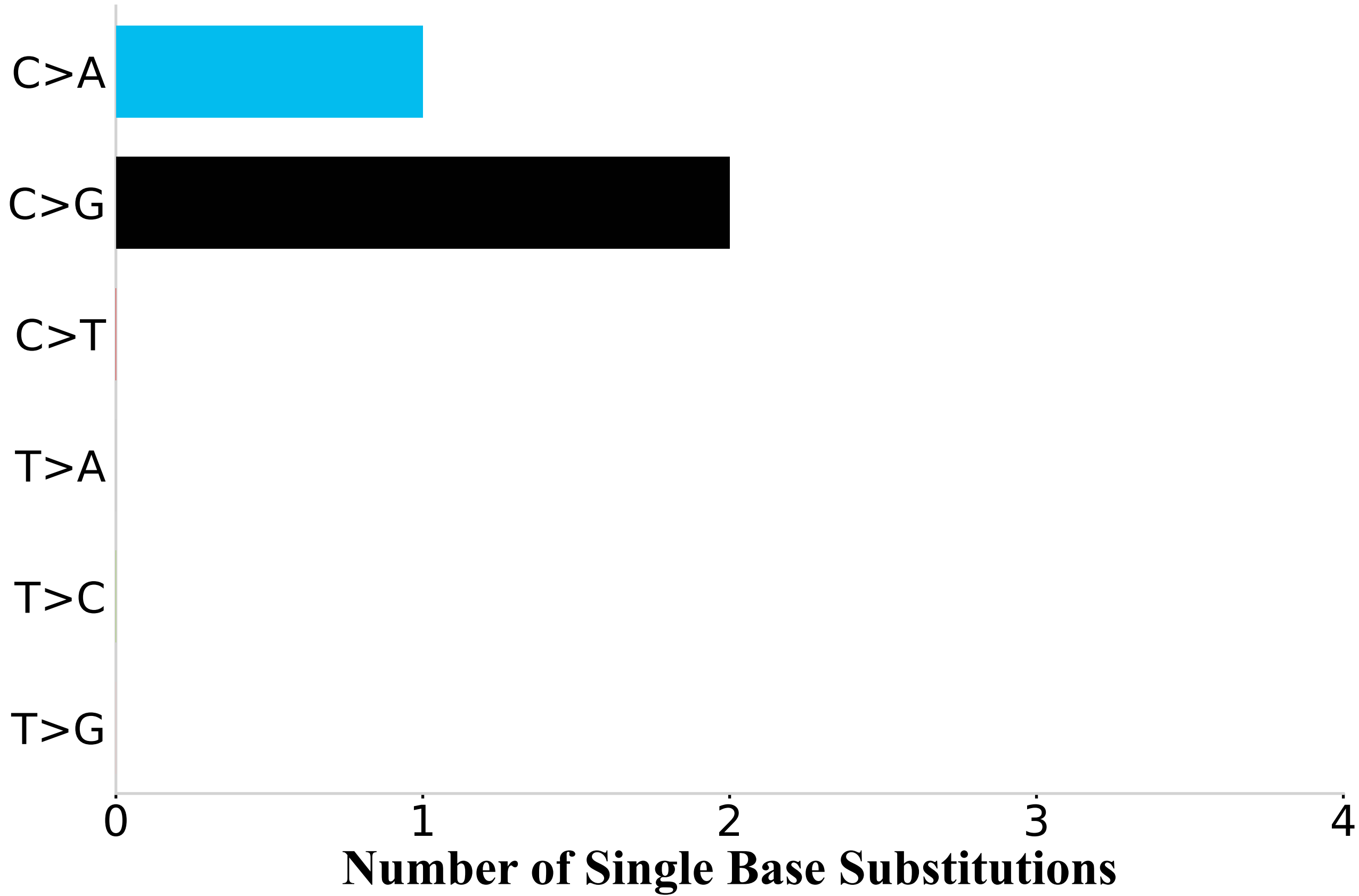
P-0002945-T01-IM3: 6 subs



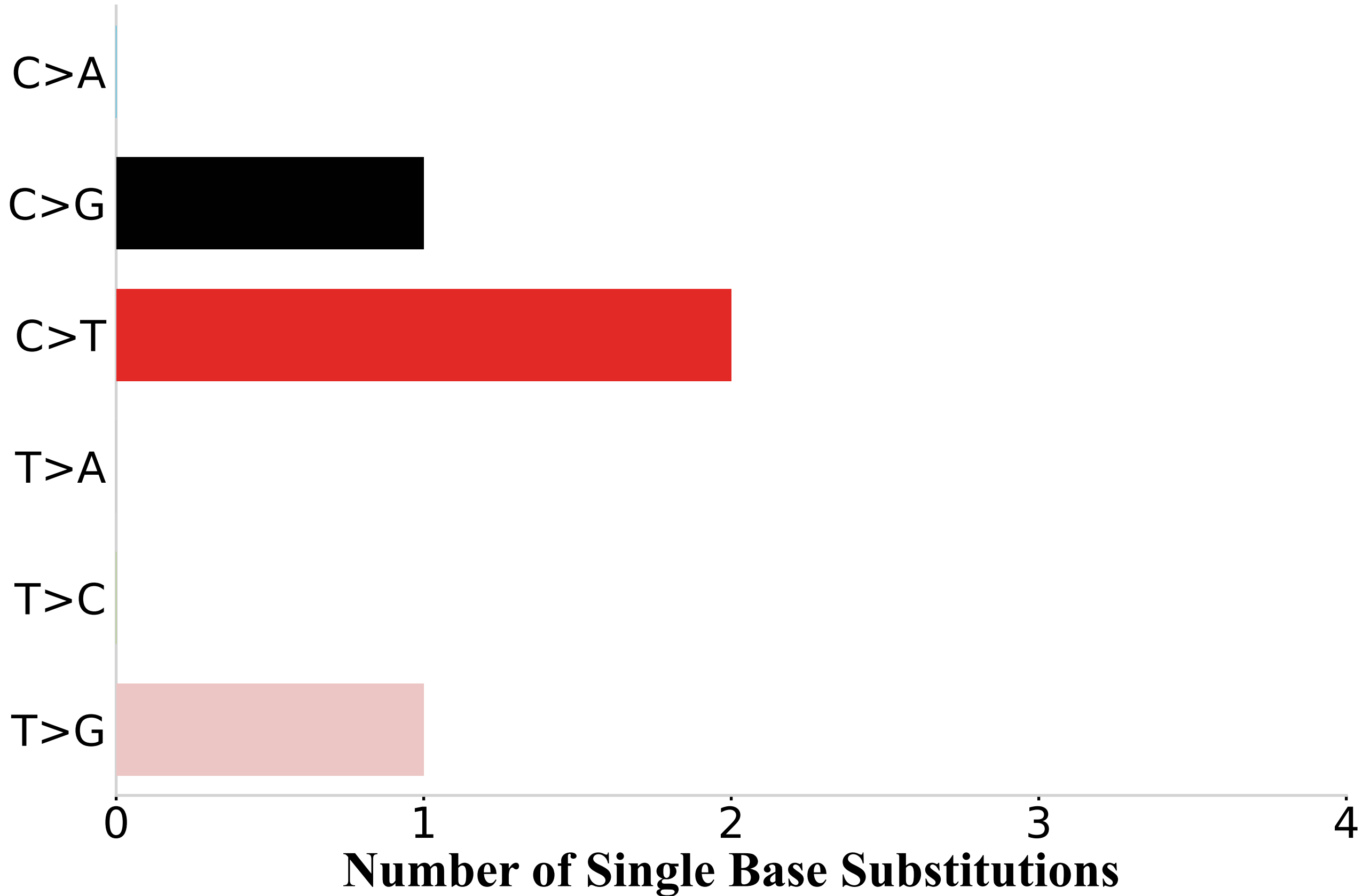
P-0003204-T01-IM5: 3 subs



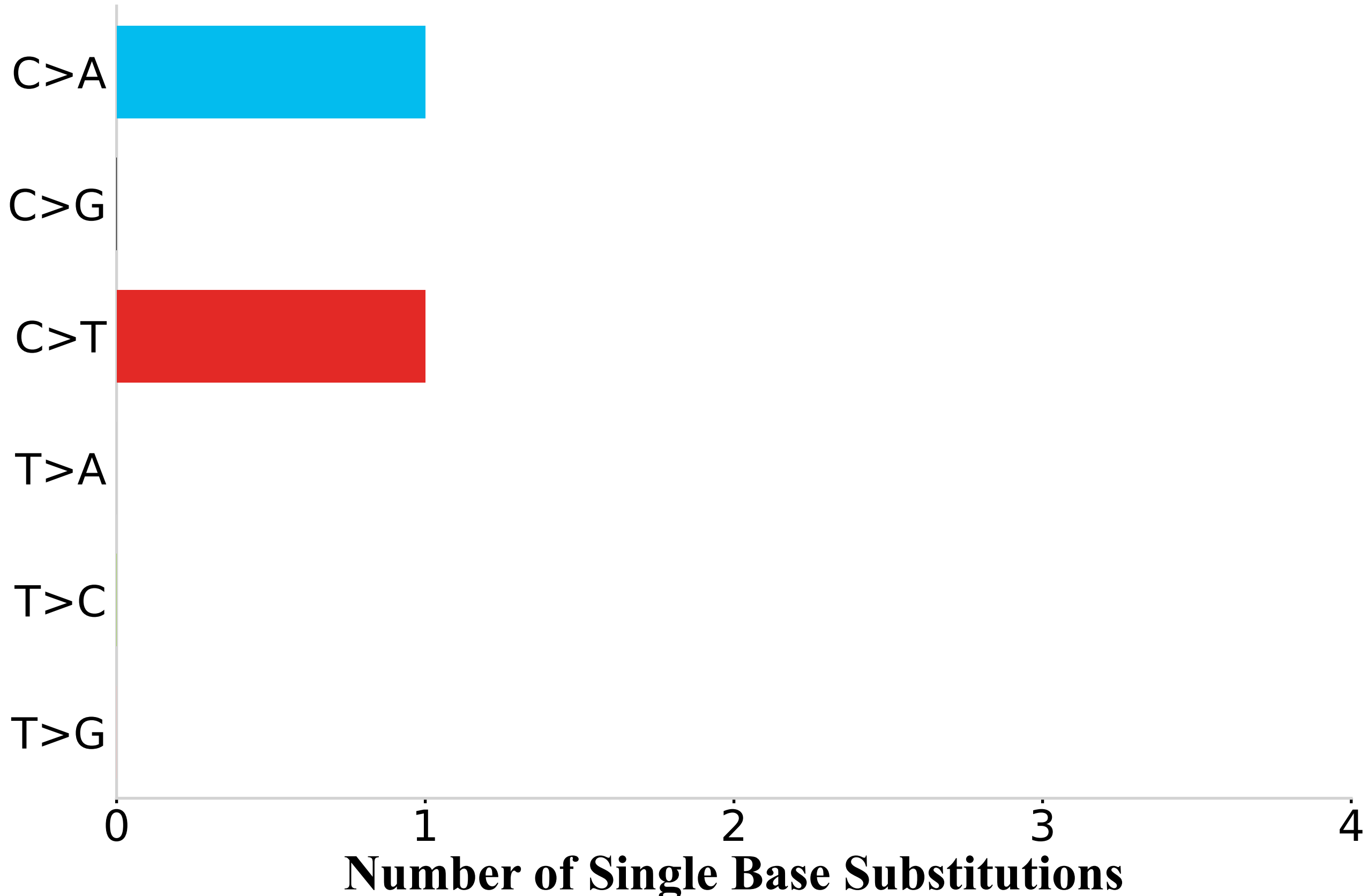
P-0003219-T01-IM5: 3 subs



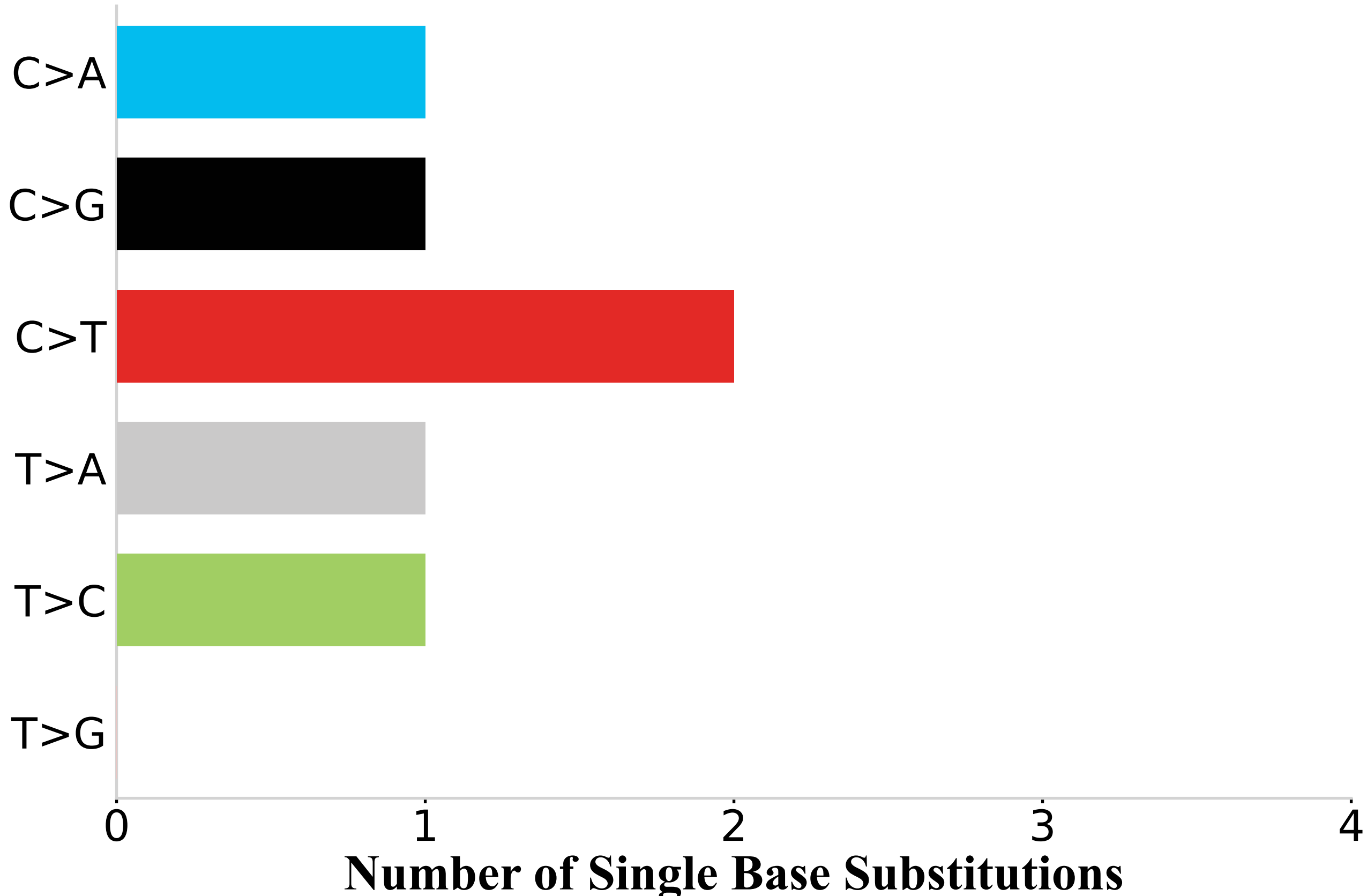
P-0003876-T01-IM5: 4 subs



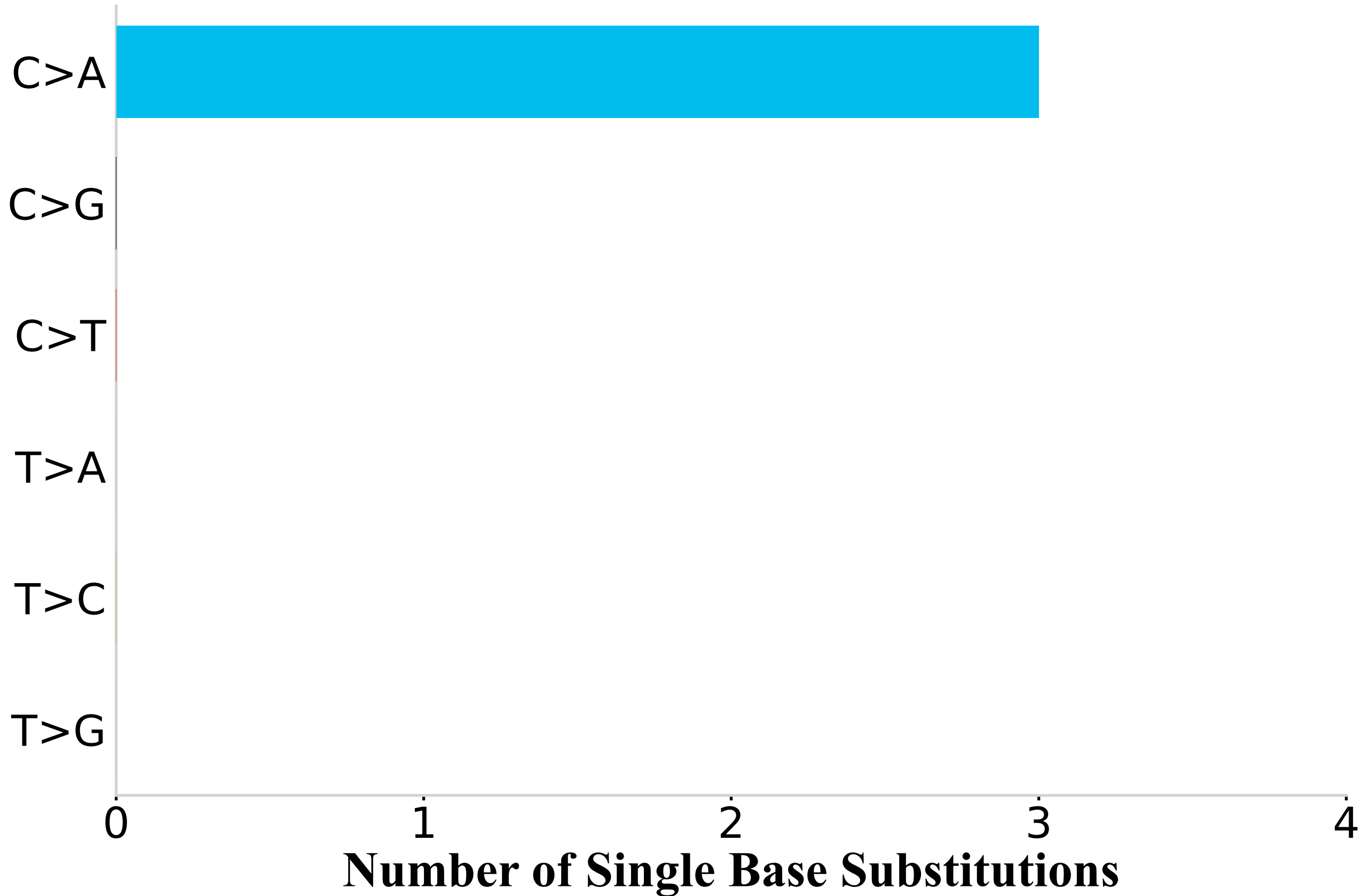
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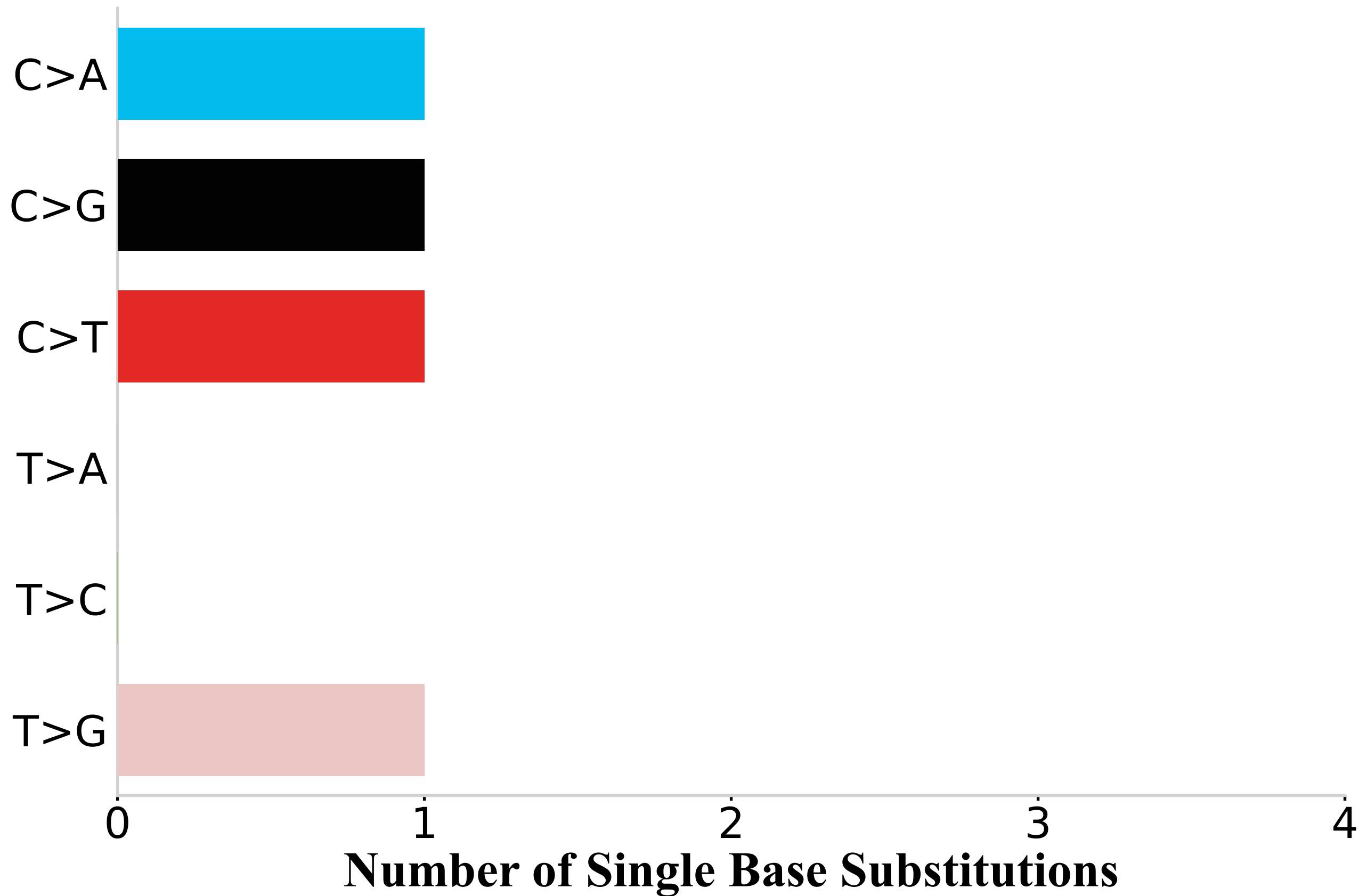
P-0004204-T01-IM5: 6 subs



P-0004261-T01-IM5: 3 subs



P-0004528-T01-IM5: 4 subs



P-0004793-T01-IM5: 7 subs

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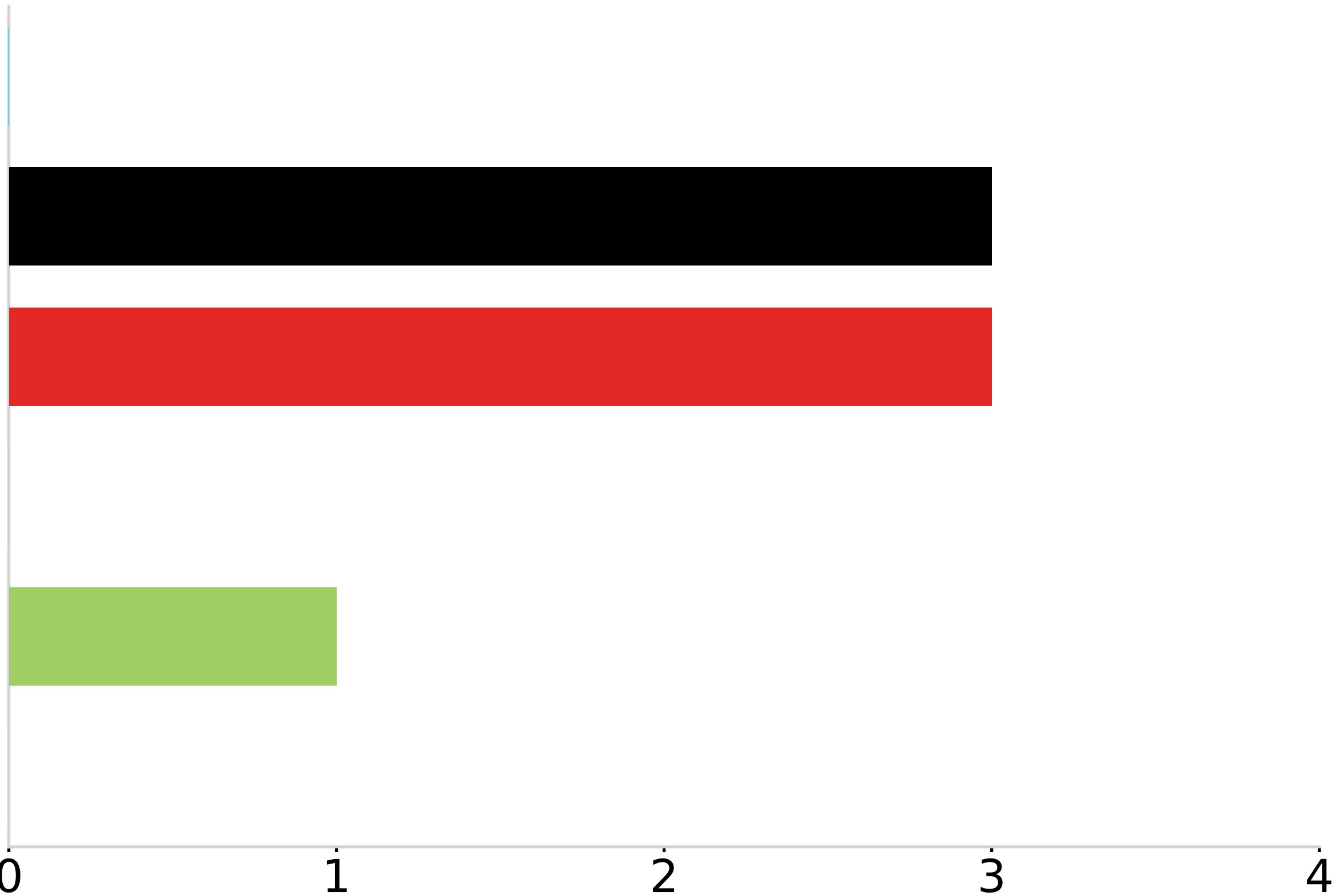
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C>T

T>A

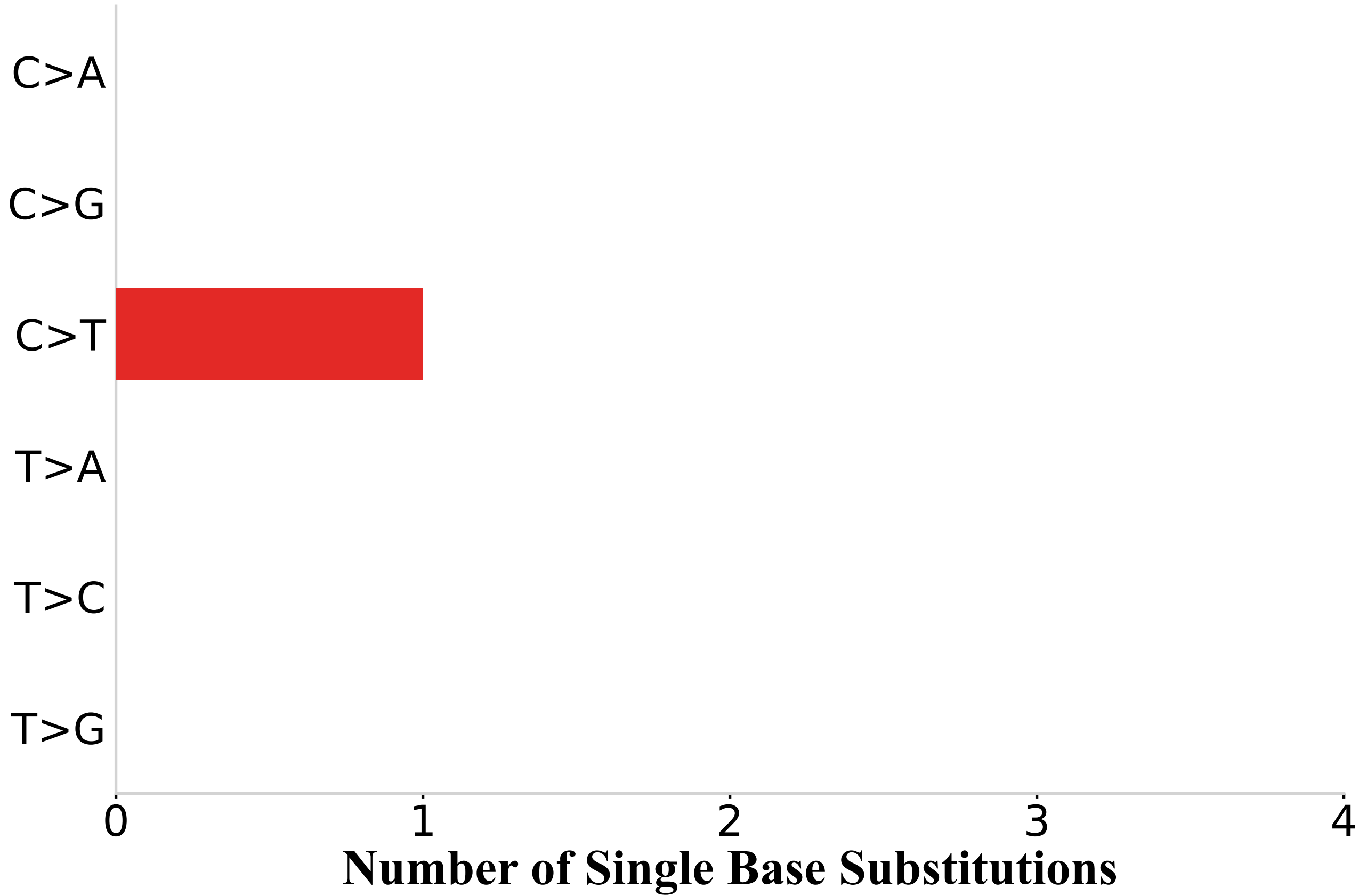
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T>G

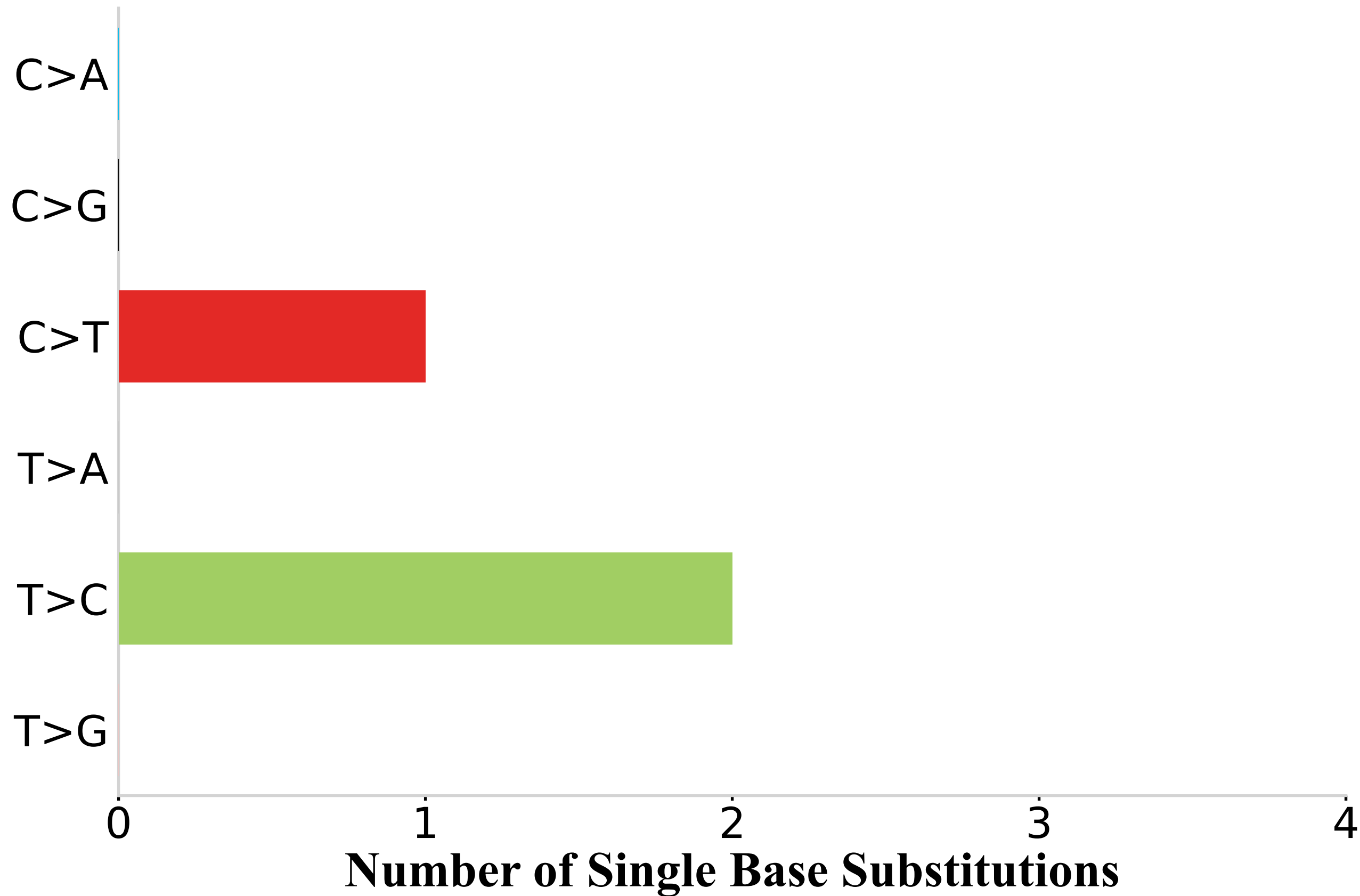


Number of Single Base Substitutions

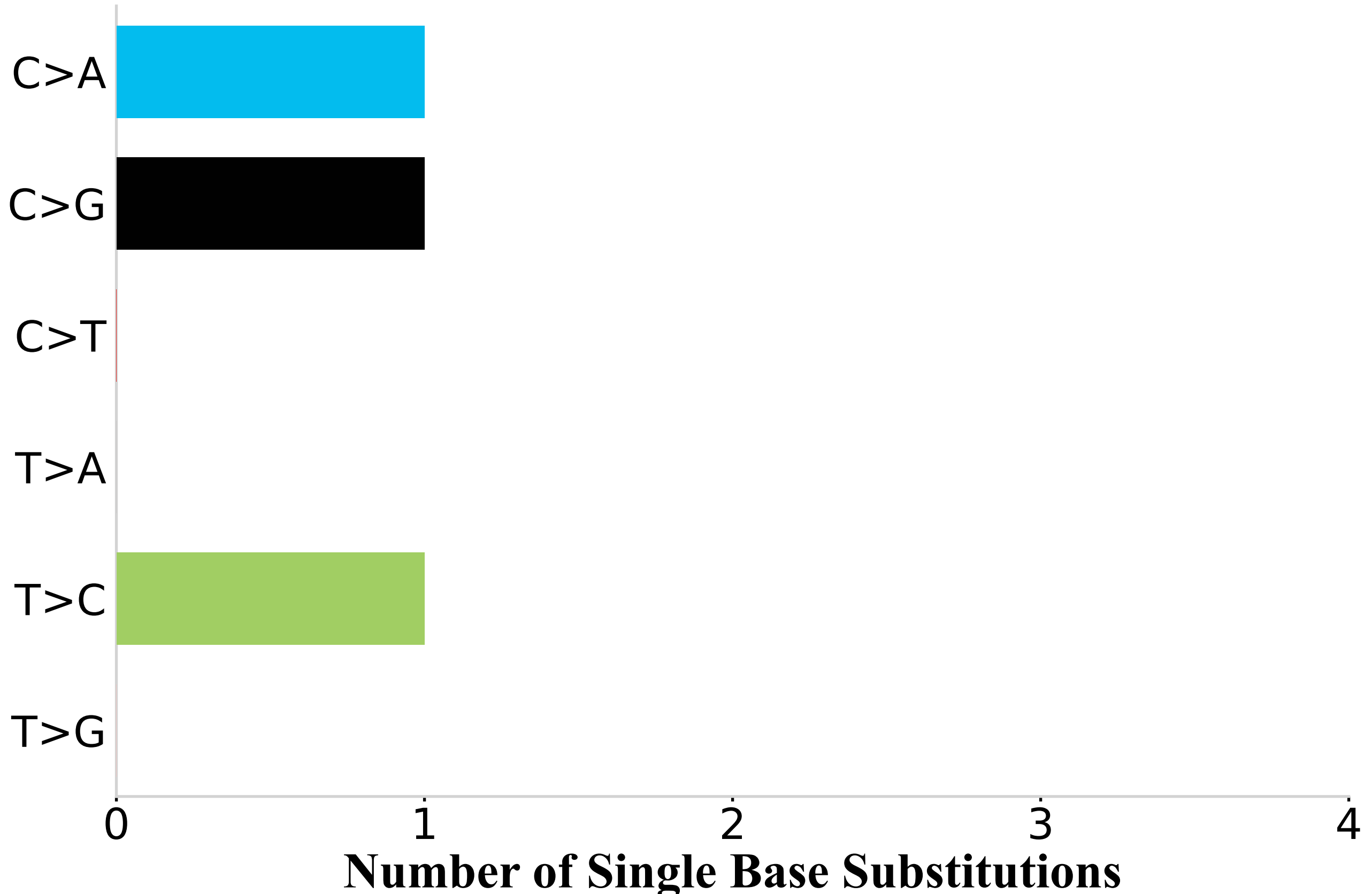
P-0004911-T01-IM5: 1 subs



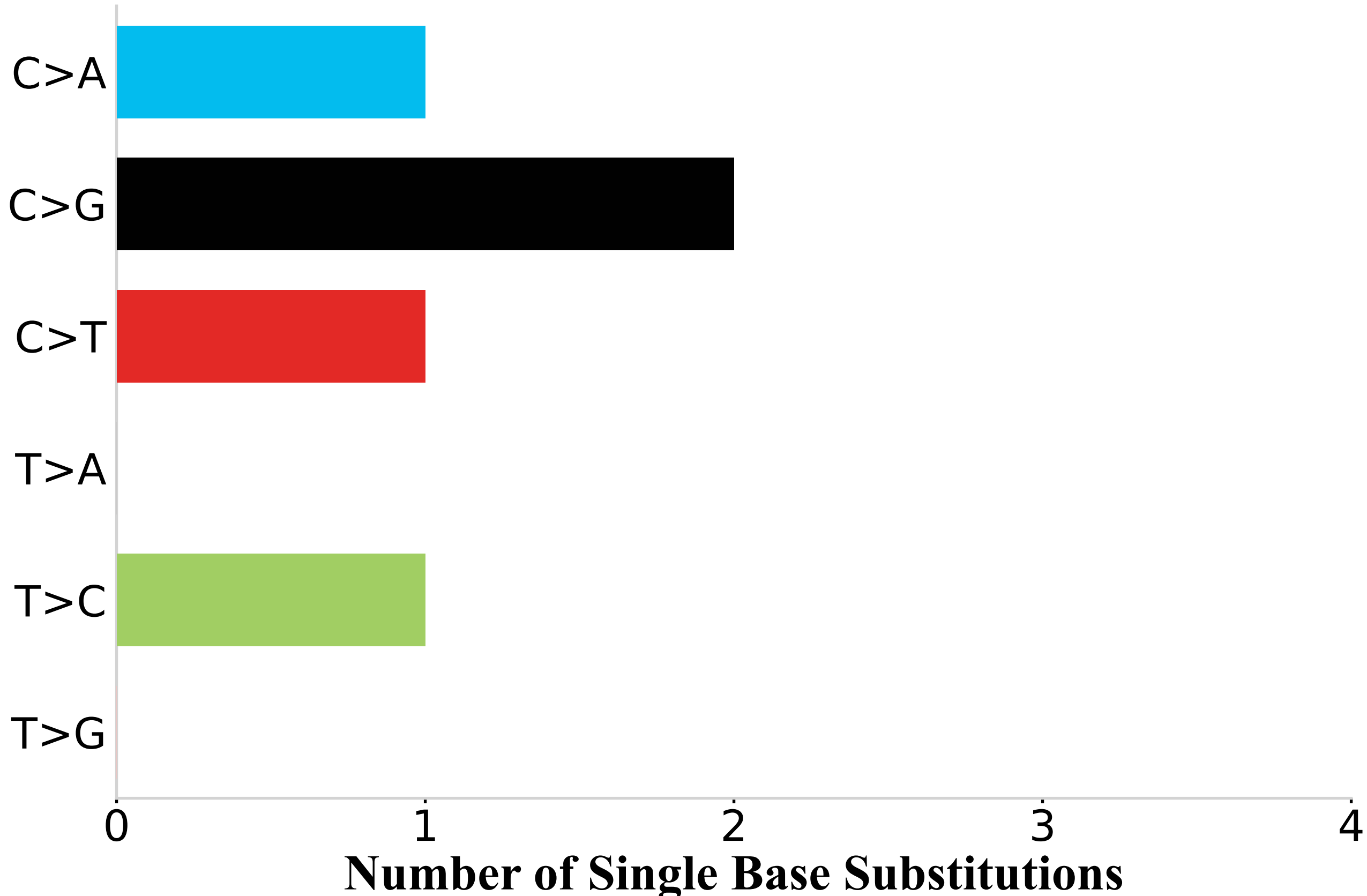
P-0004942-T01-IM5: 3 subs



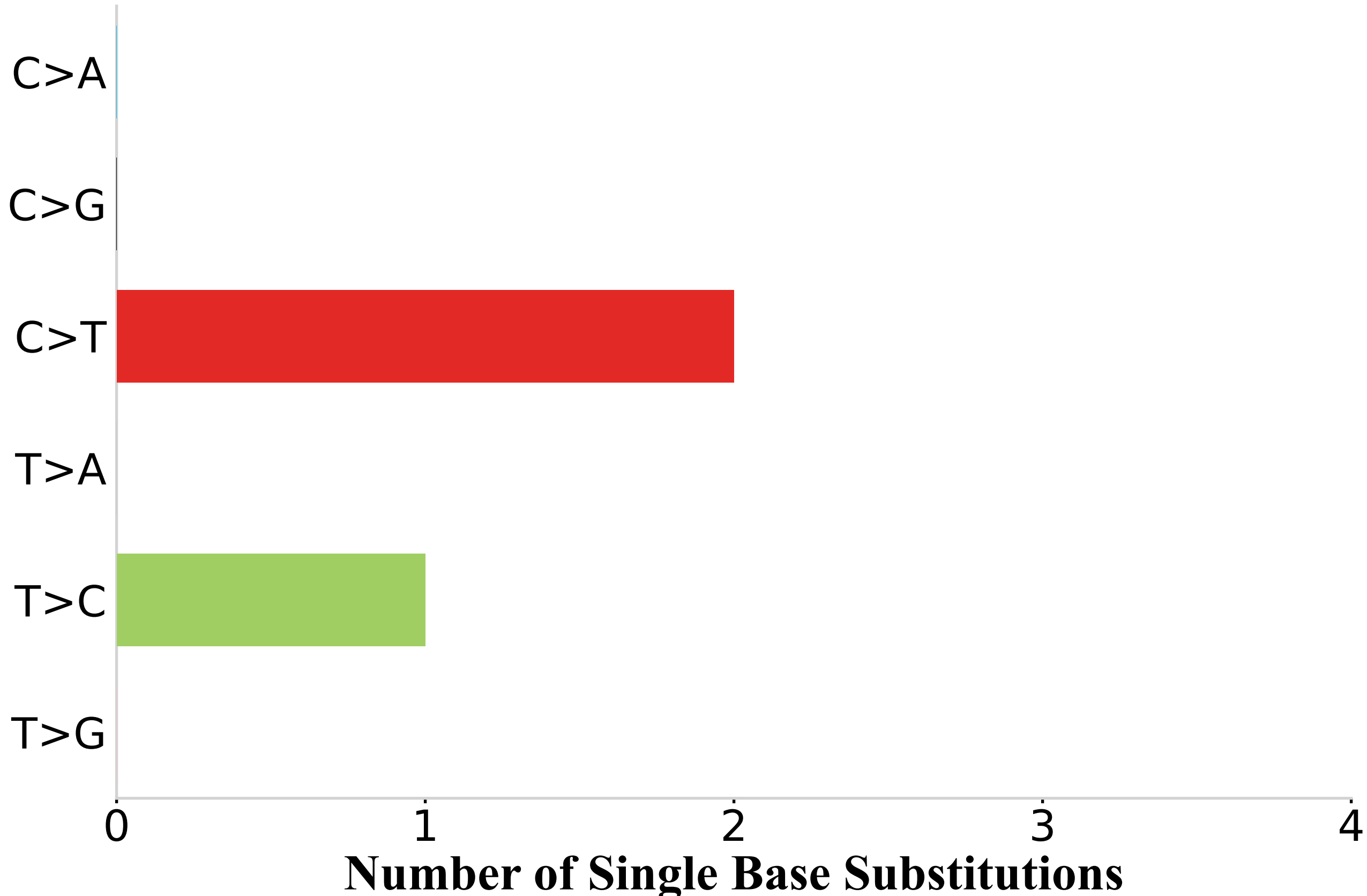
P-0005046-T01-IM5: 3 subs



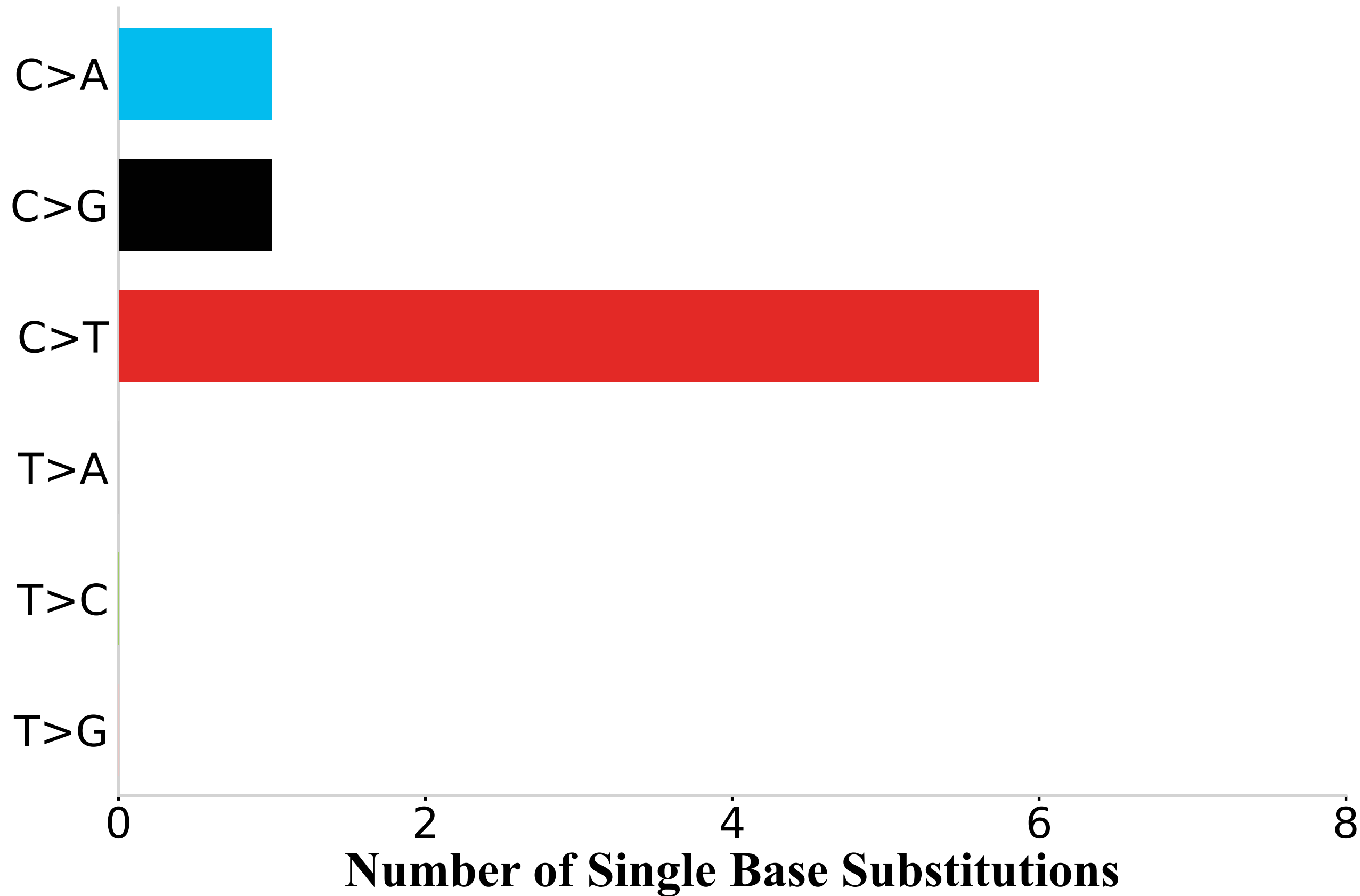
P-0005061-T01-IM5: 5 subs



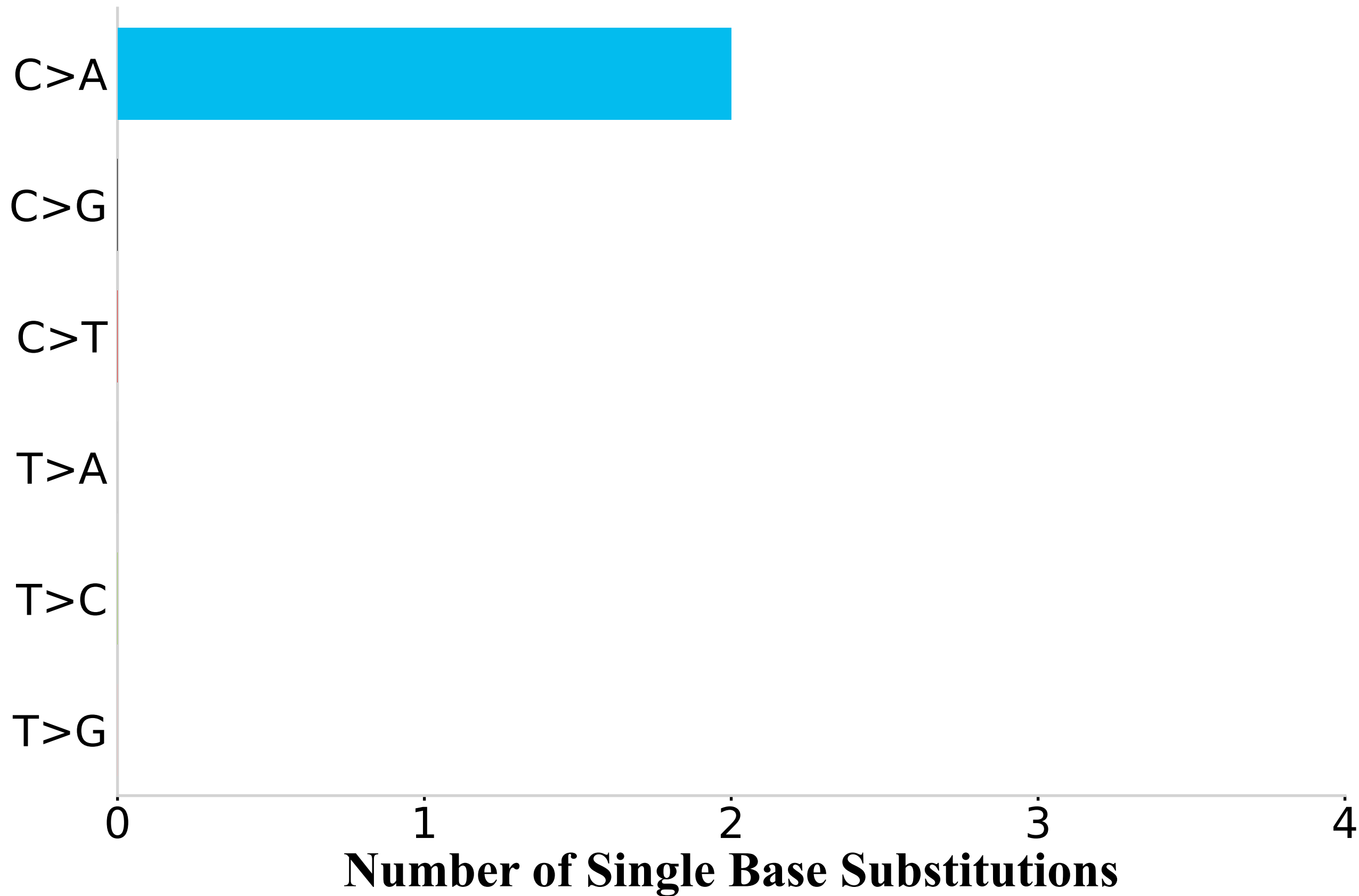
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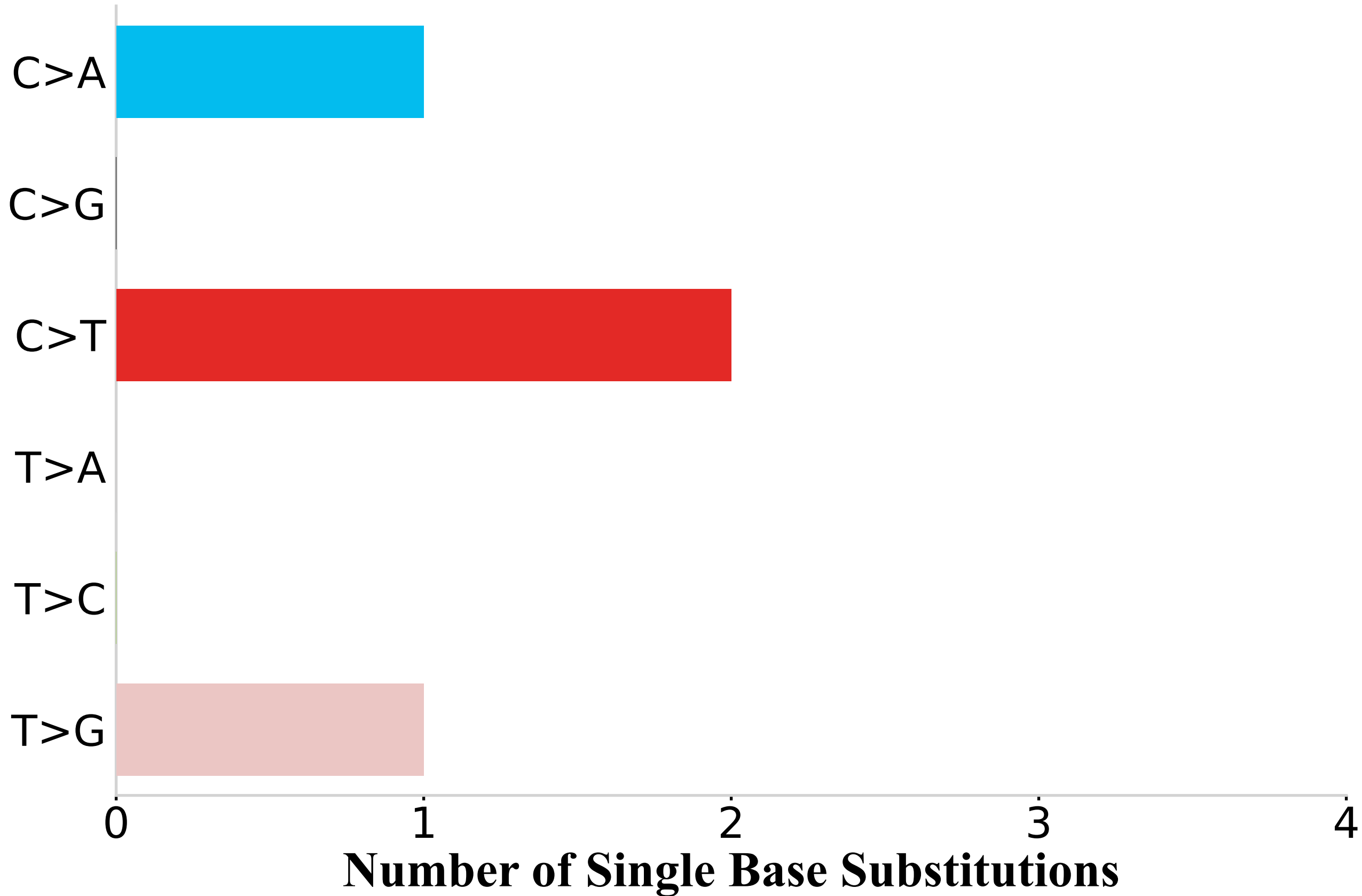
P-0005085-T01-IM5: 8 subs



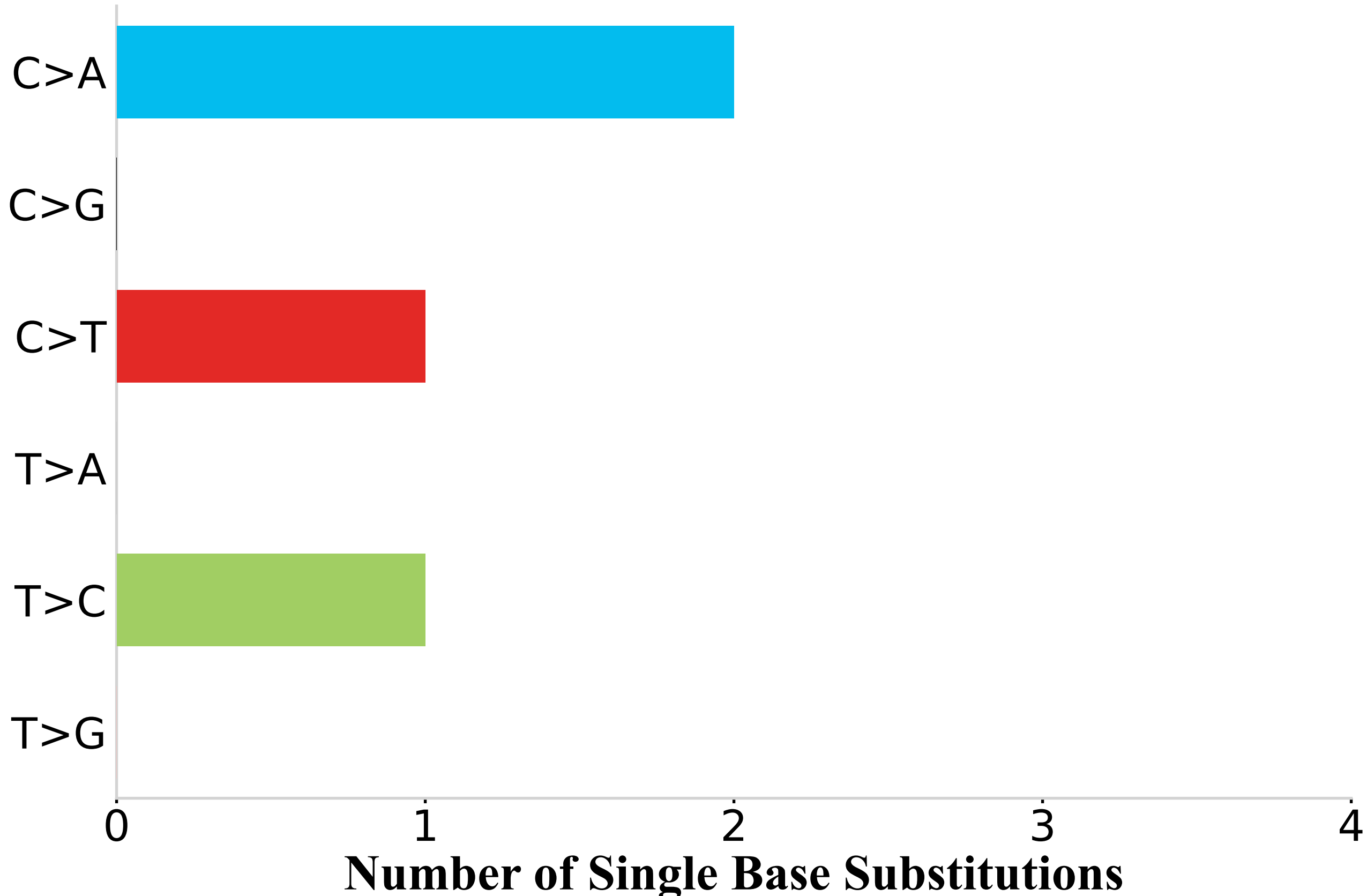
P-0005501-T01-IM5: 2 subs



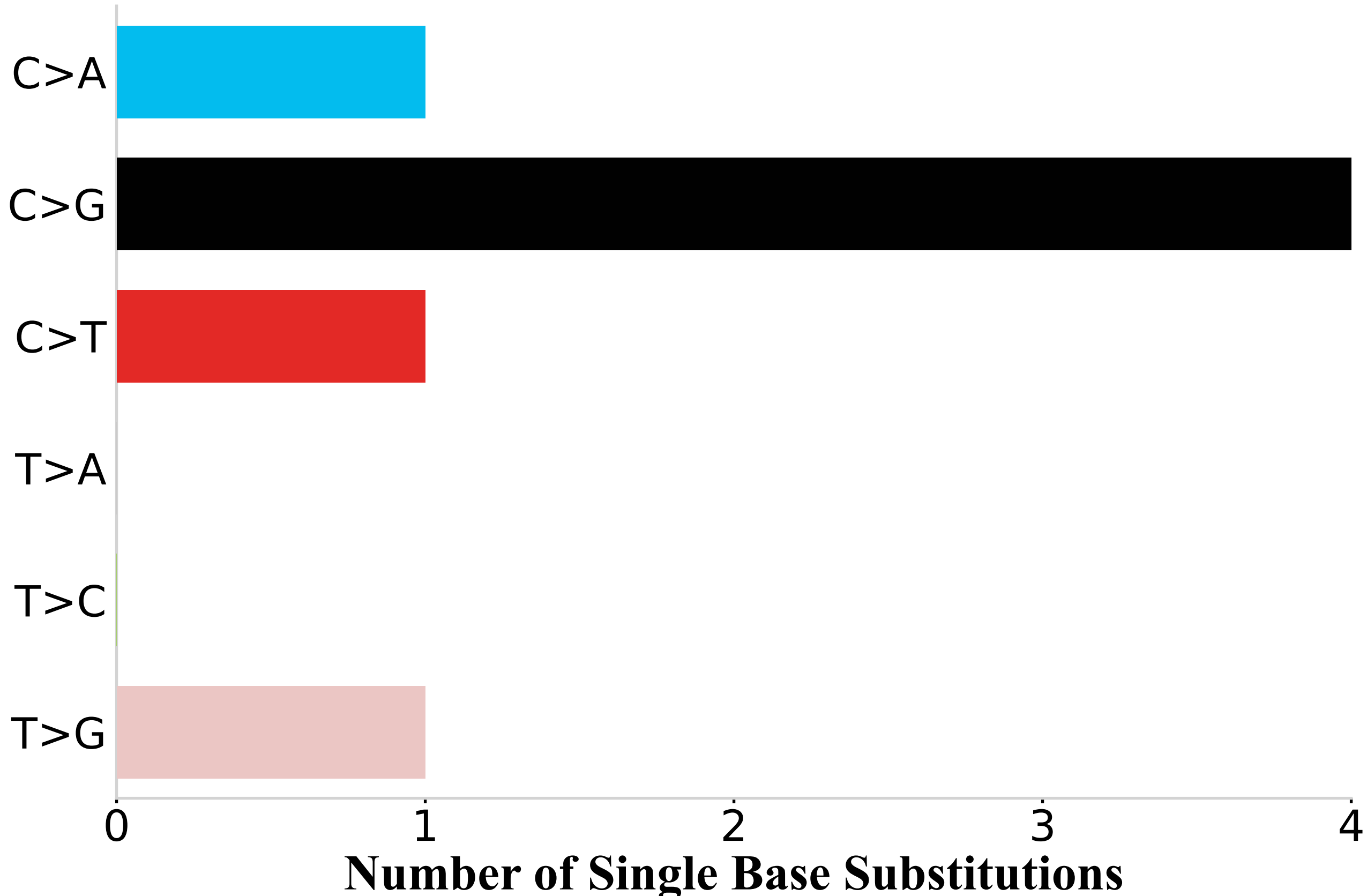
P-0005695-T01-IM5: 4 subs



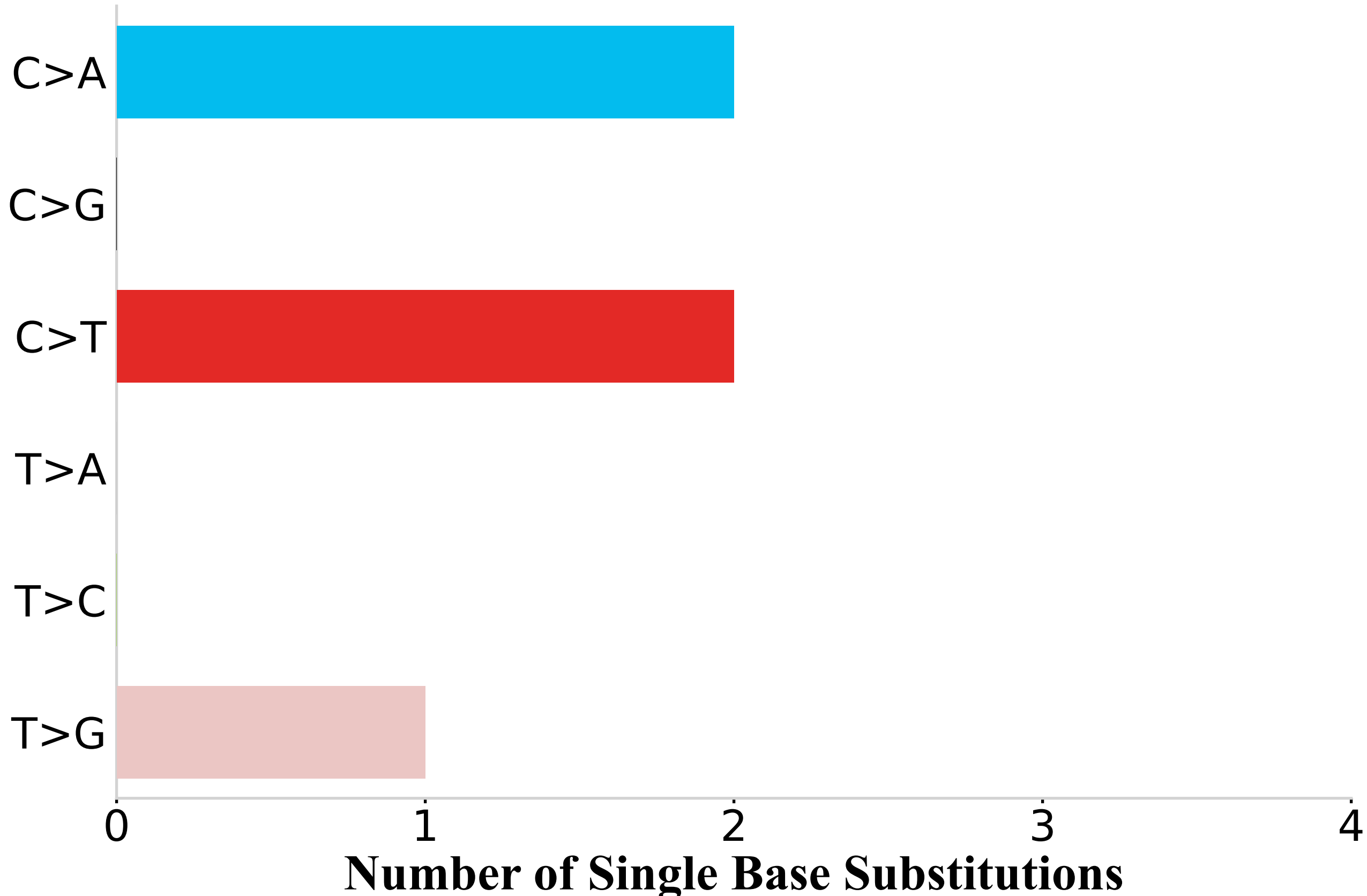
P-0006014-T01-IM5: 4 subs



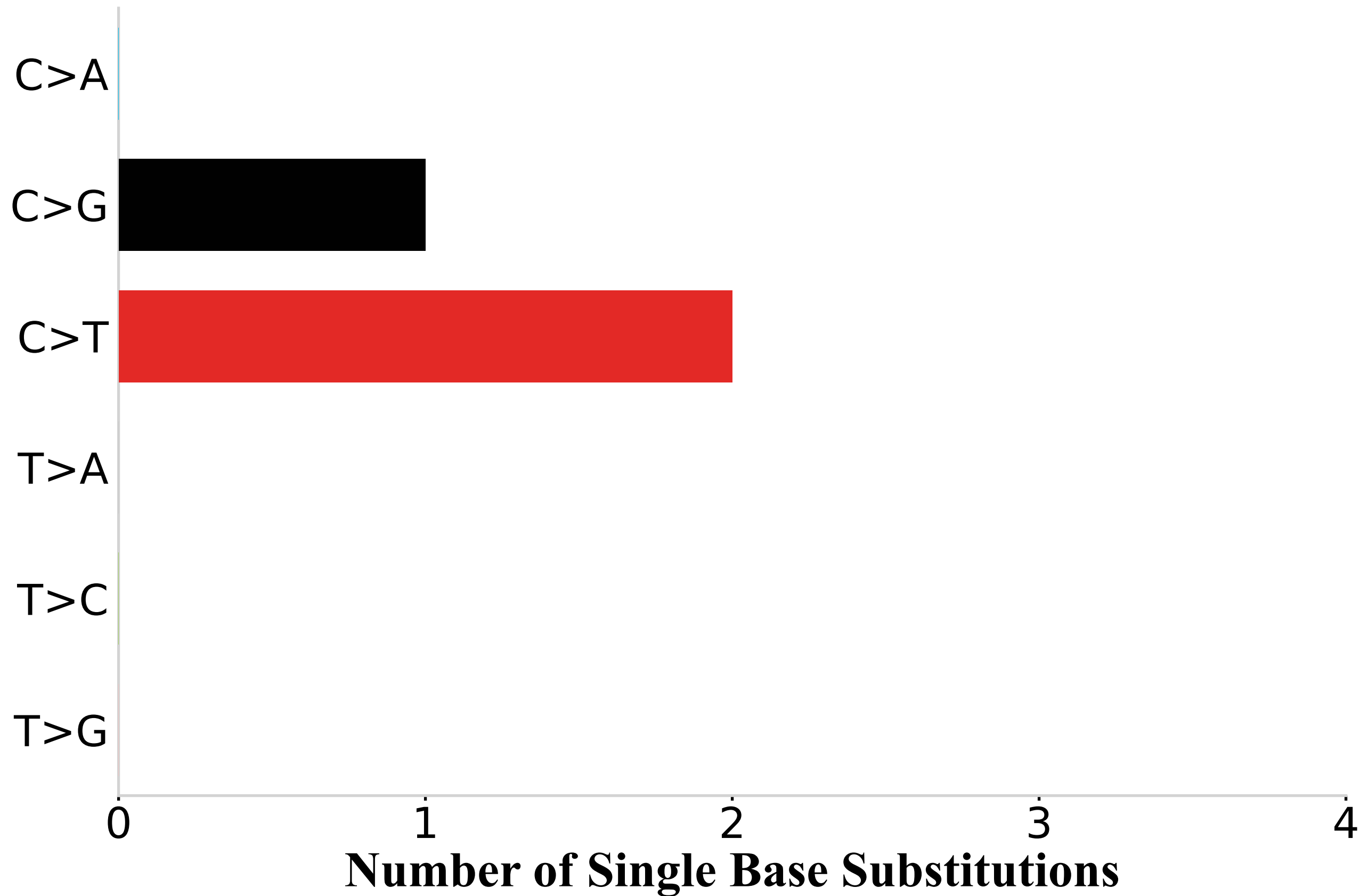
P-0006167-T01-IM5: 7 subs



P-0007178-T01-IM5: 5 subs



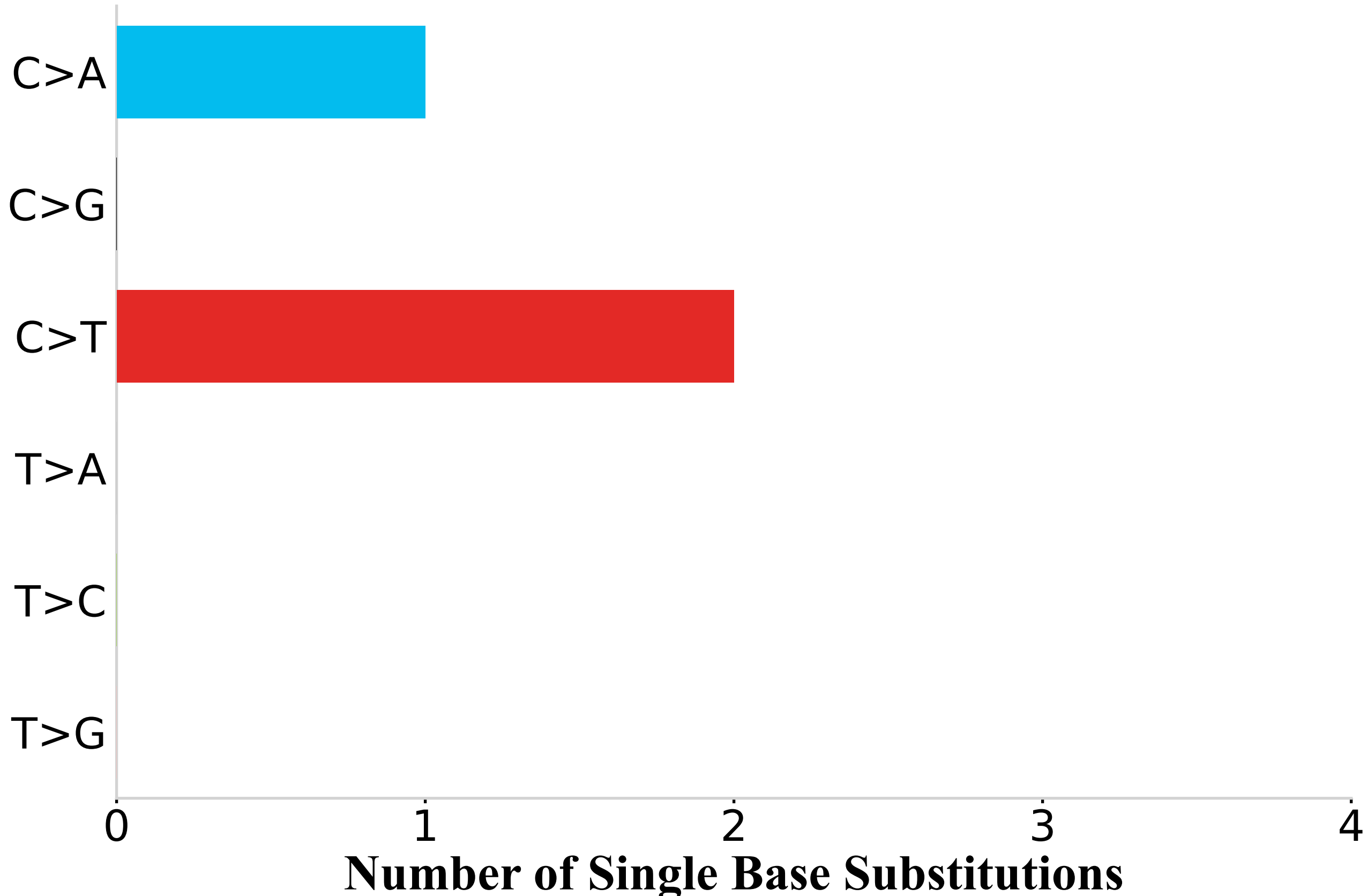
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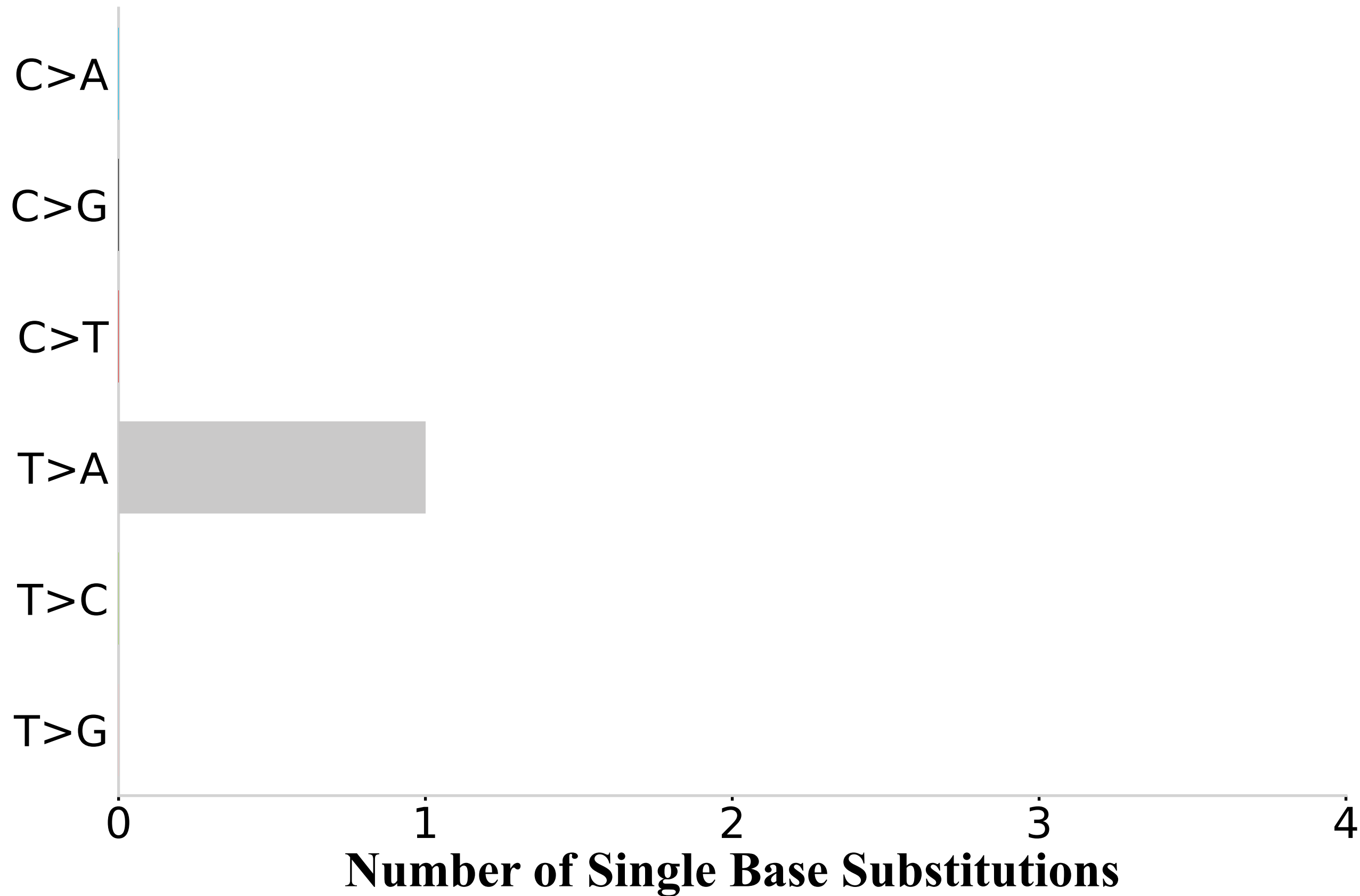
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P-0008394-T01-IM5: 3 subs



P-0008516-T01-IM5: 1 subs



P-0008685-T01-IM5: 3 subs

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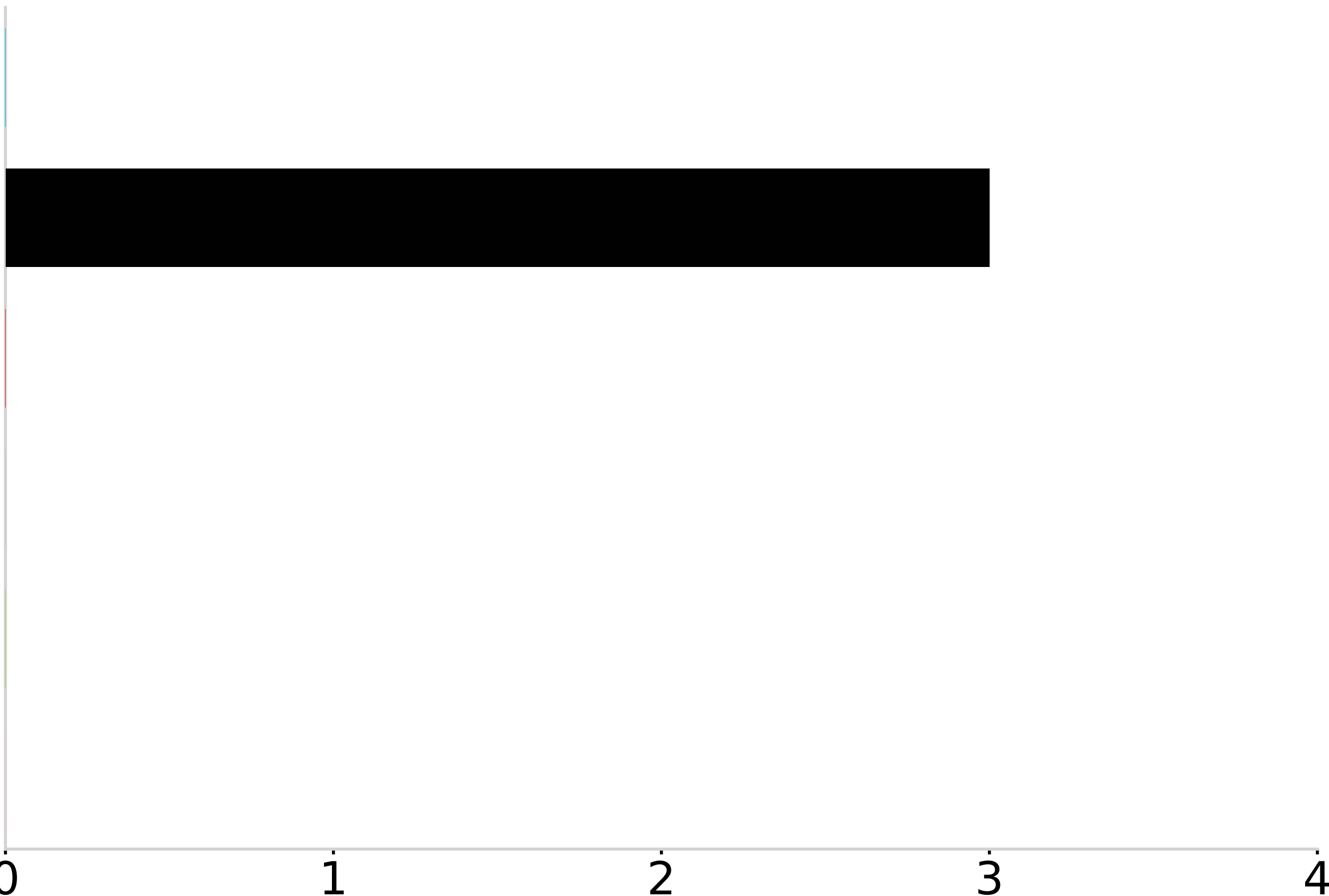
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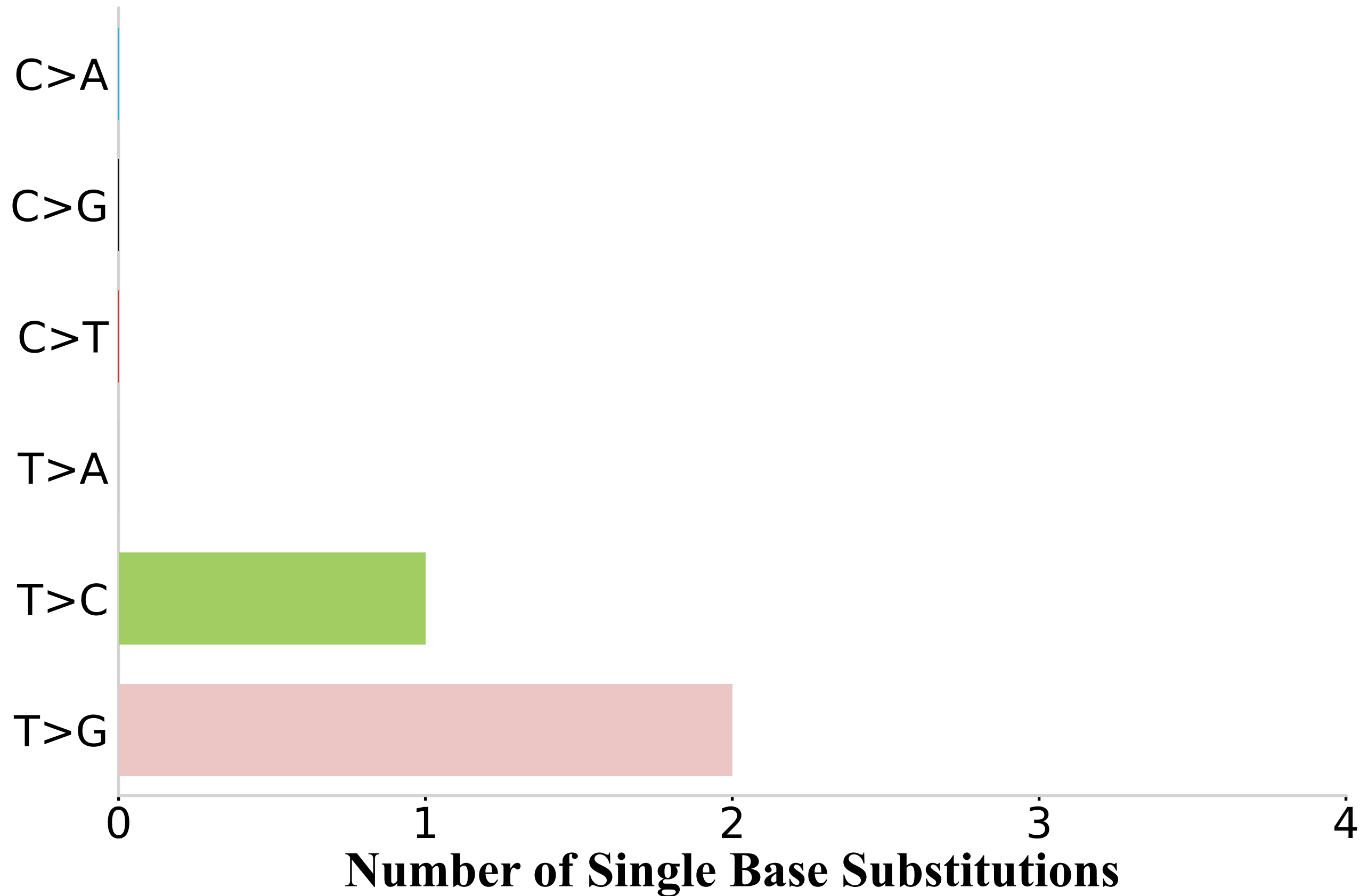
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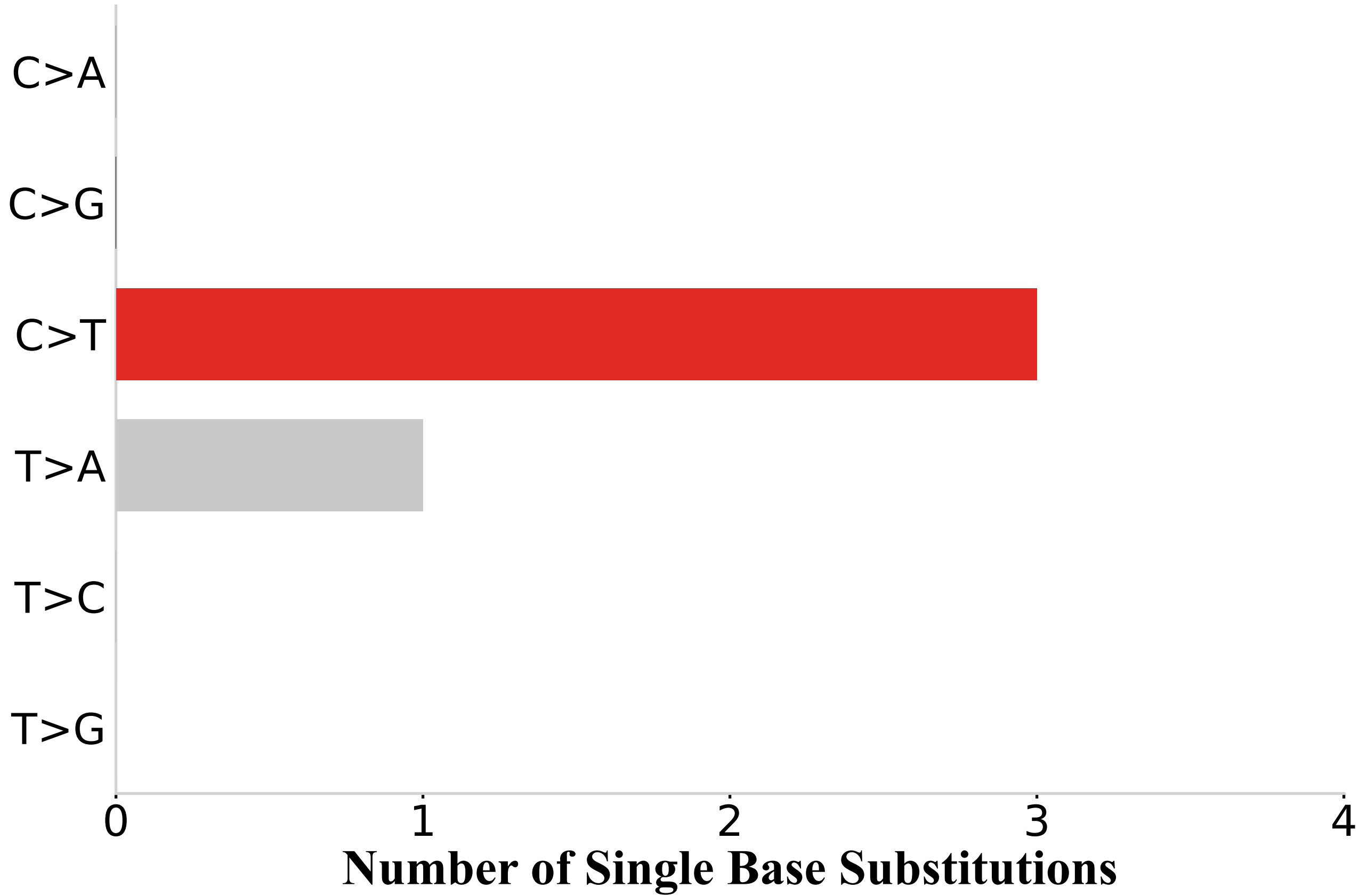
Number of Single Base Substitutions



P-0009835-T01-IM5: 3 subs



P-0010782-T01-IM5: 4 subs



P-0011145-T01-IM5: 3 subs

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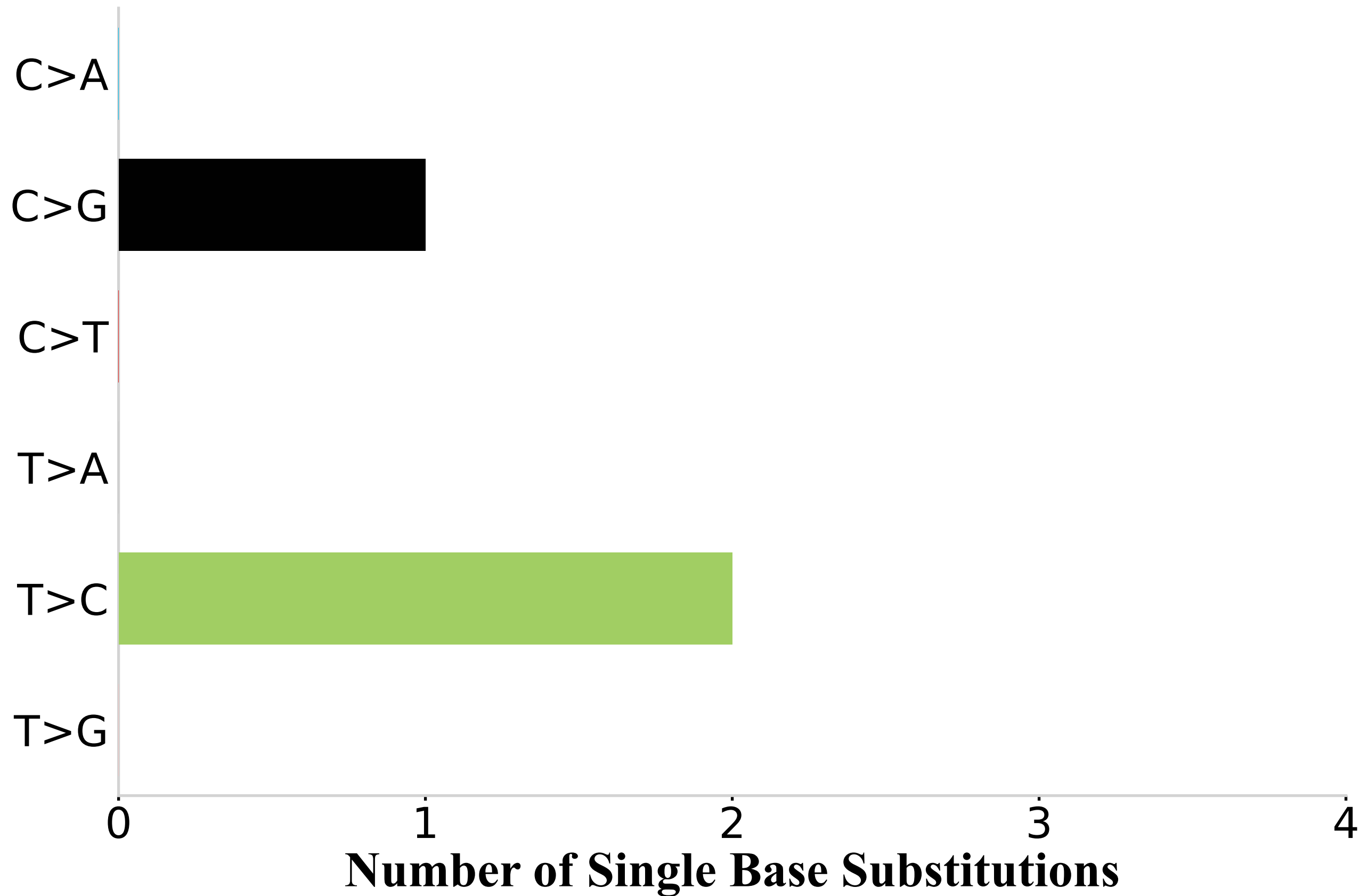
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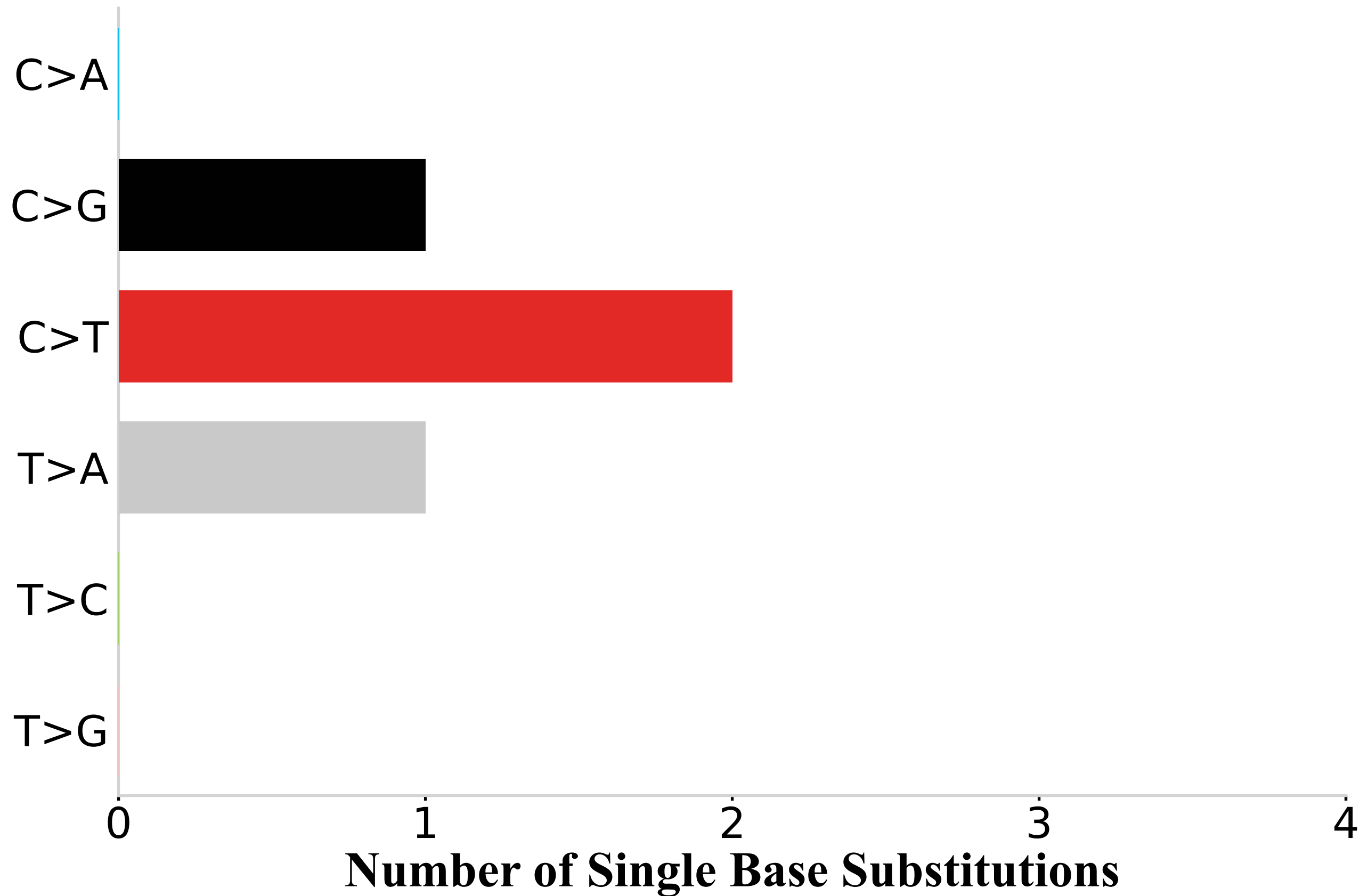
Number of Single Base Substitutions



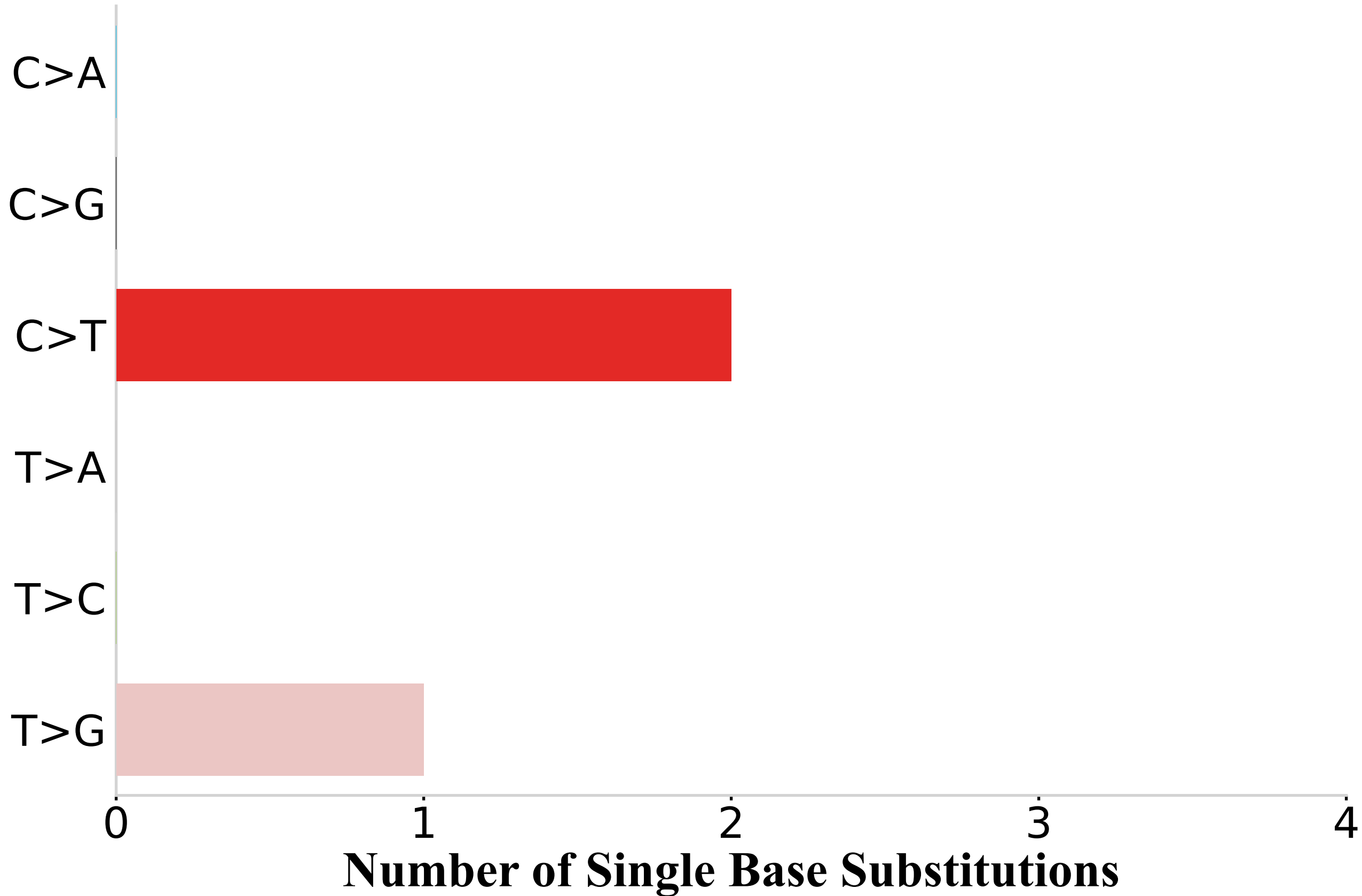
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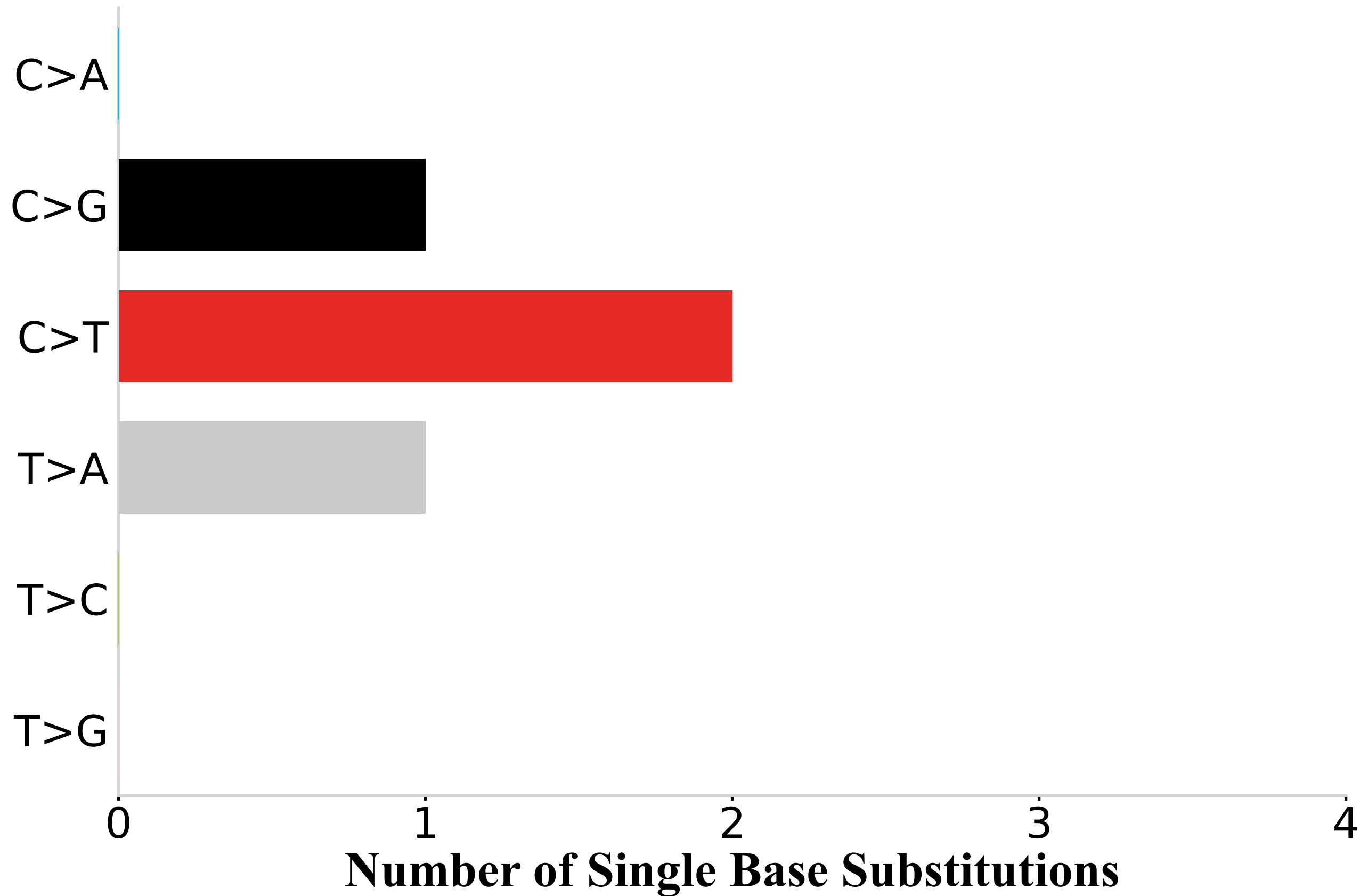
P-0013344-T01-IM5: 4 subs



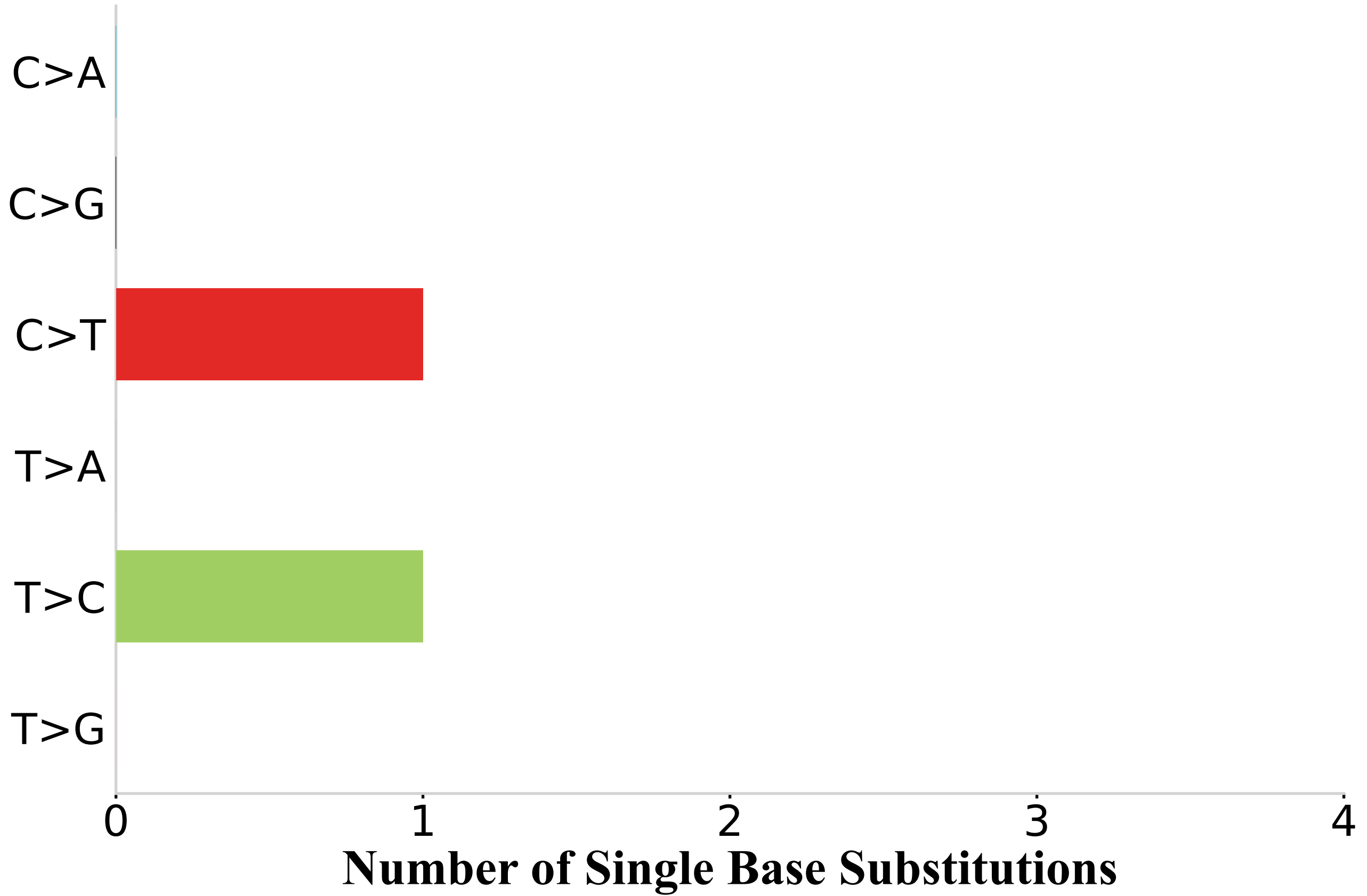
P-0013396-T01-IM5: 3 subs



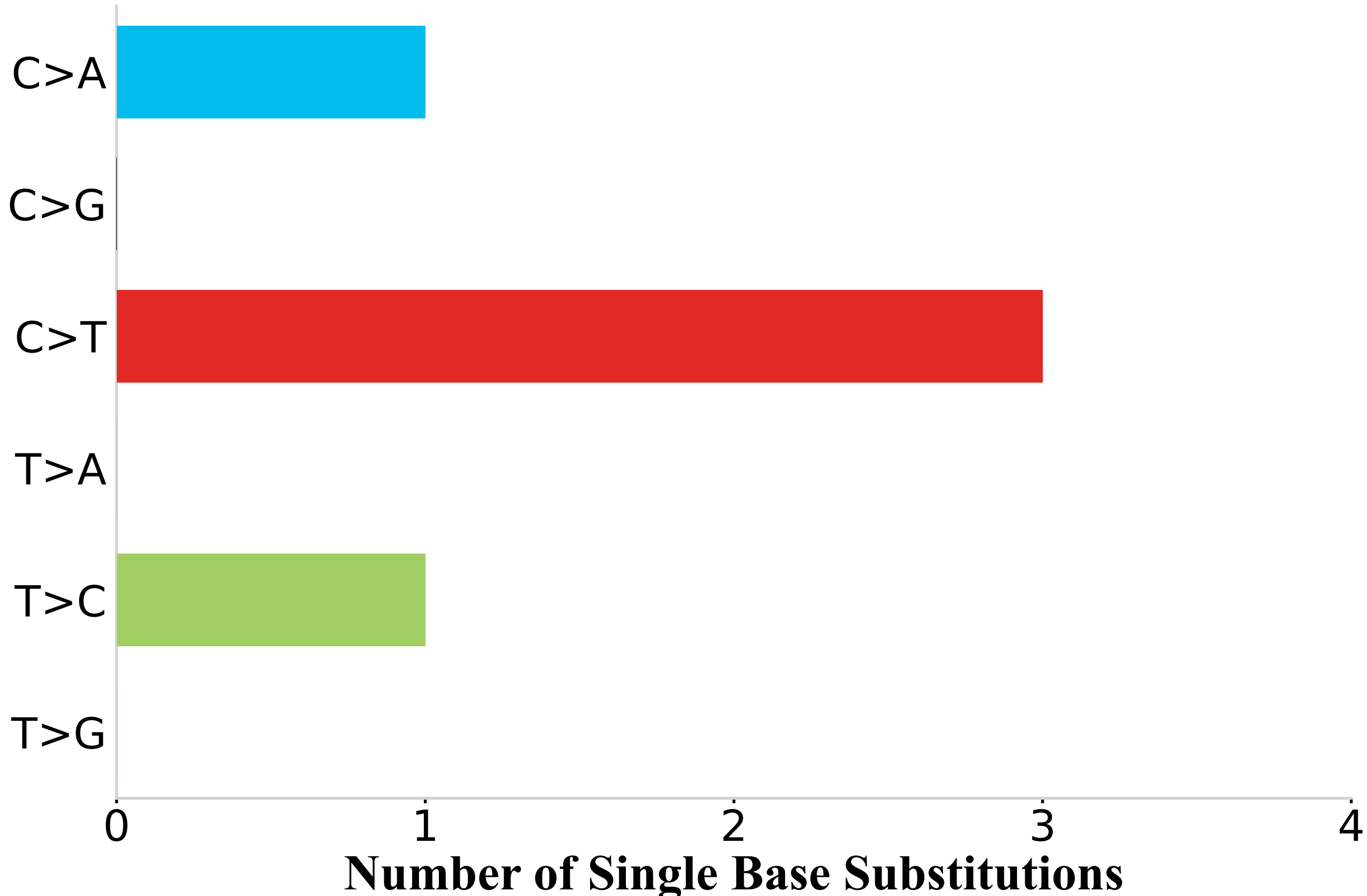
P-0013438-T01-IM5: 4 subs



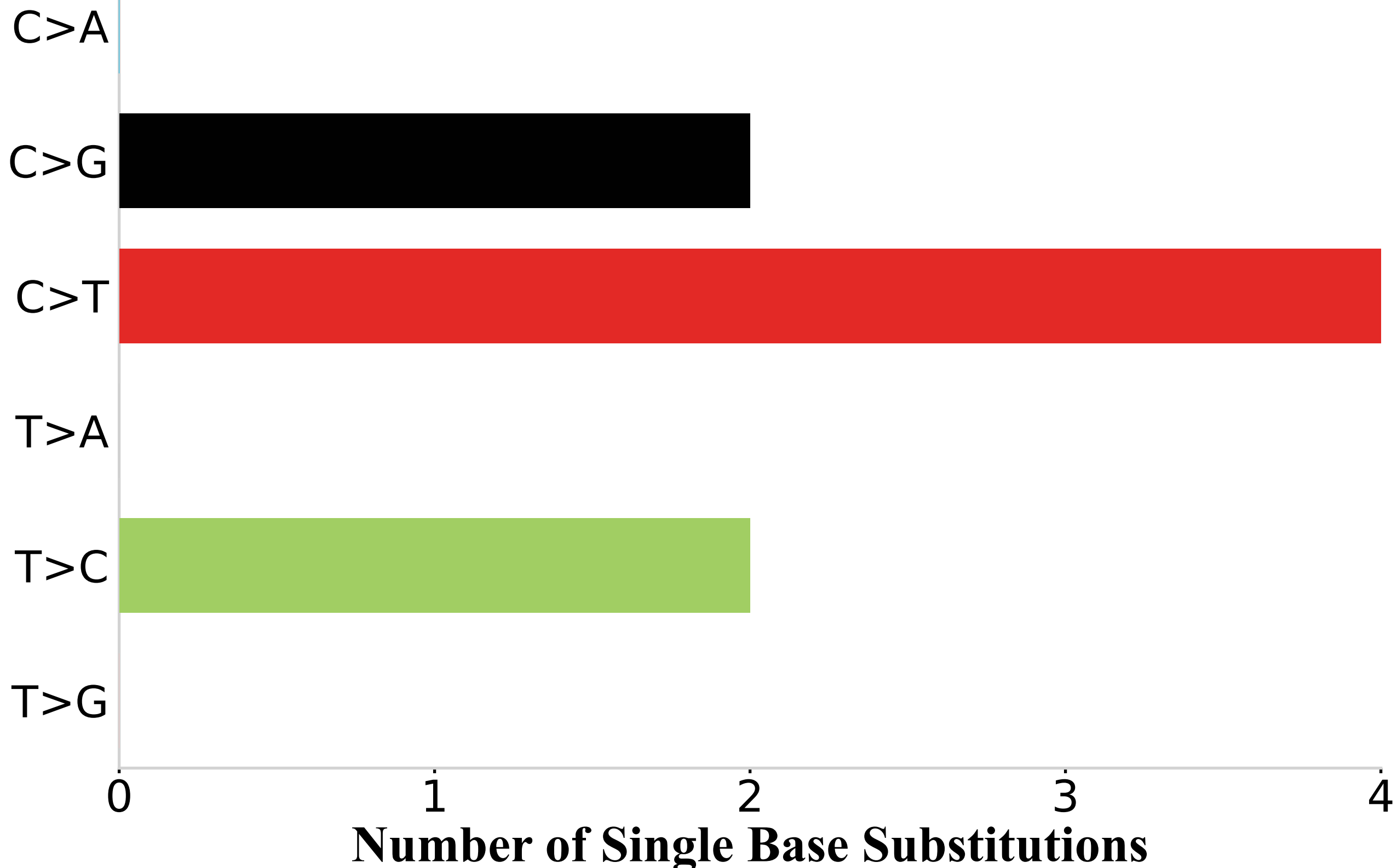
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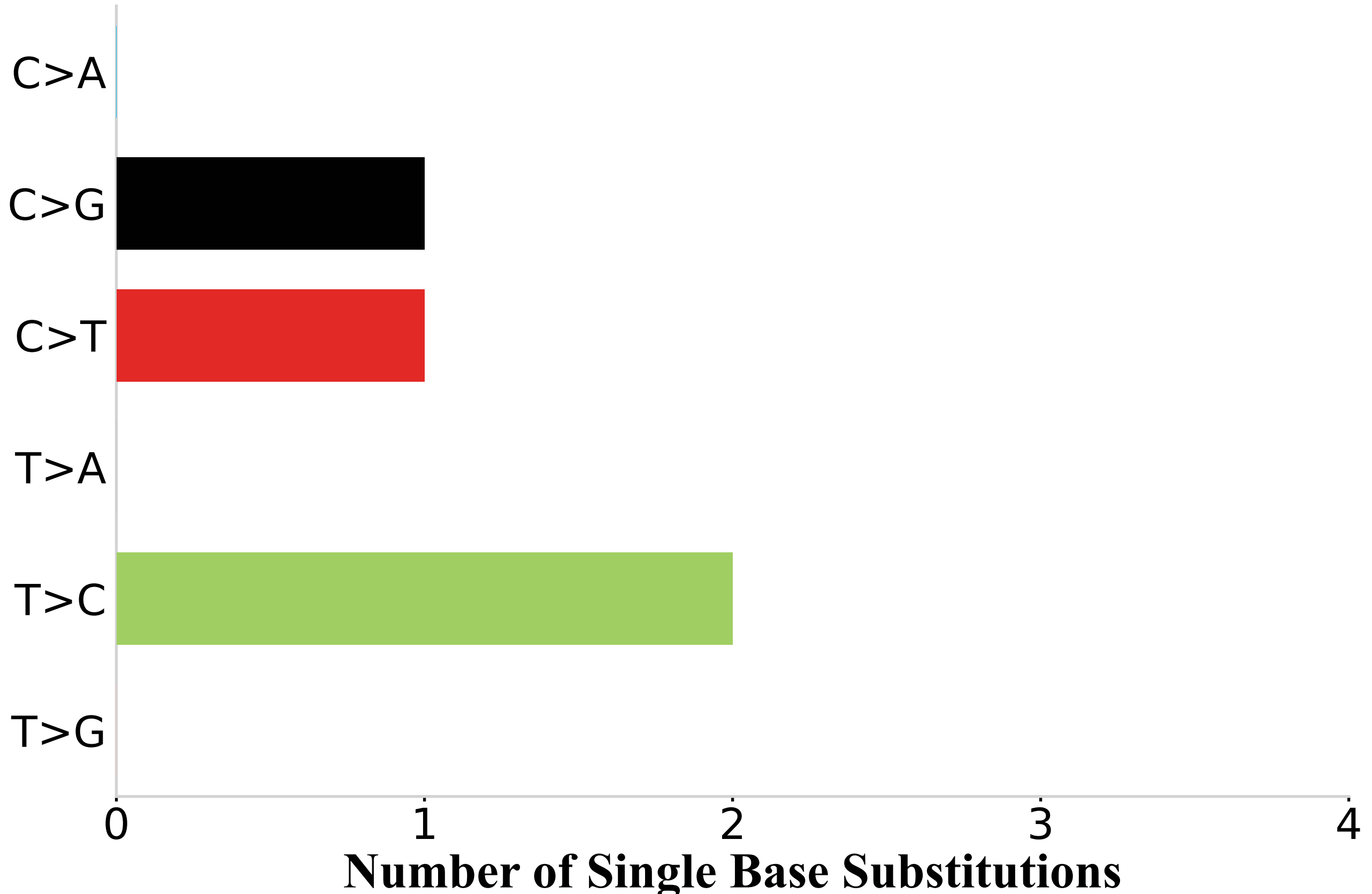
P-0013722-T01-IM5: 5 subs



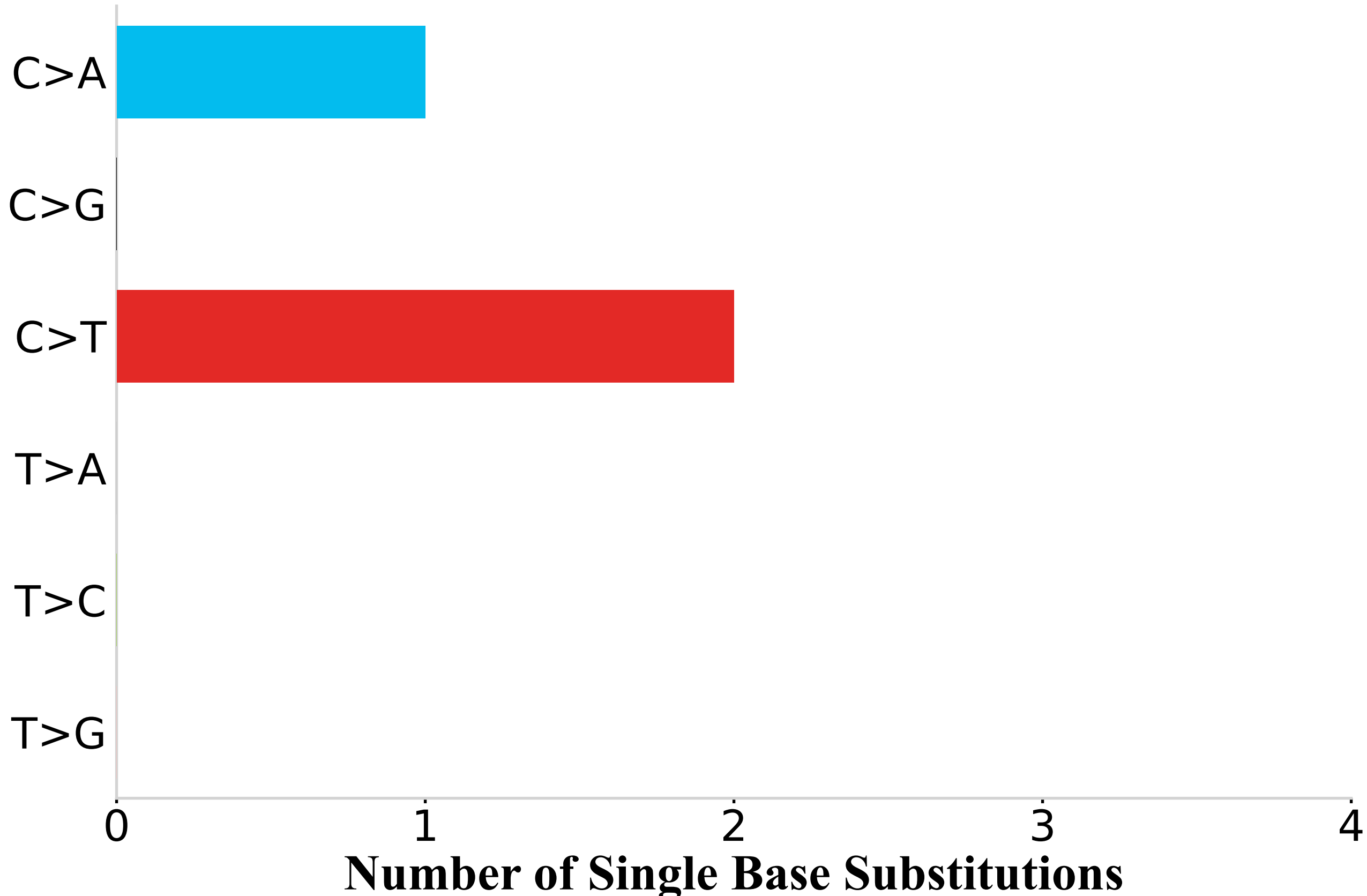
P-0013913-T01-IM5: 8 subs



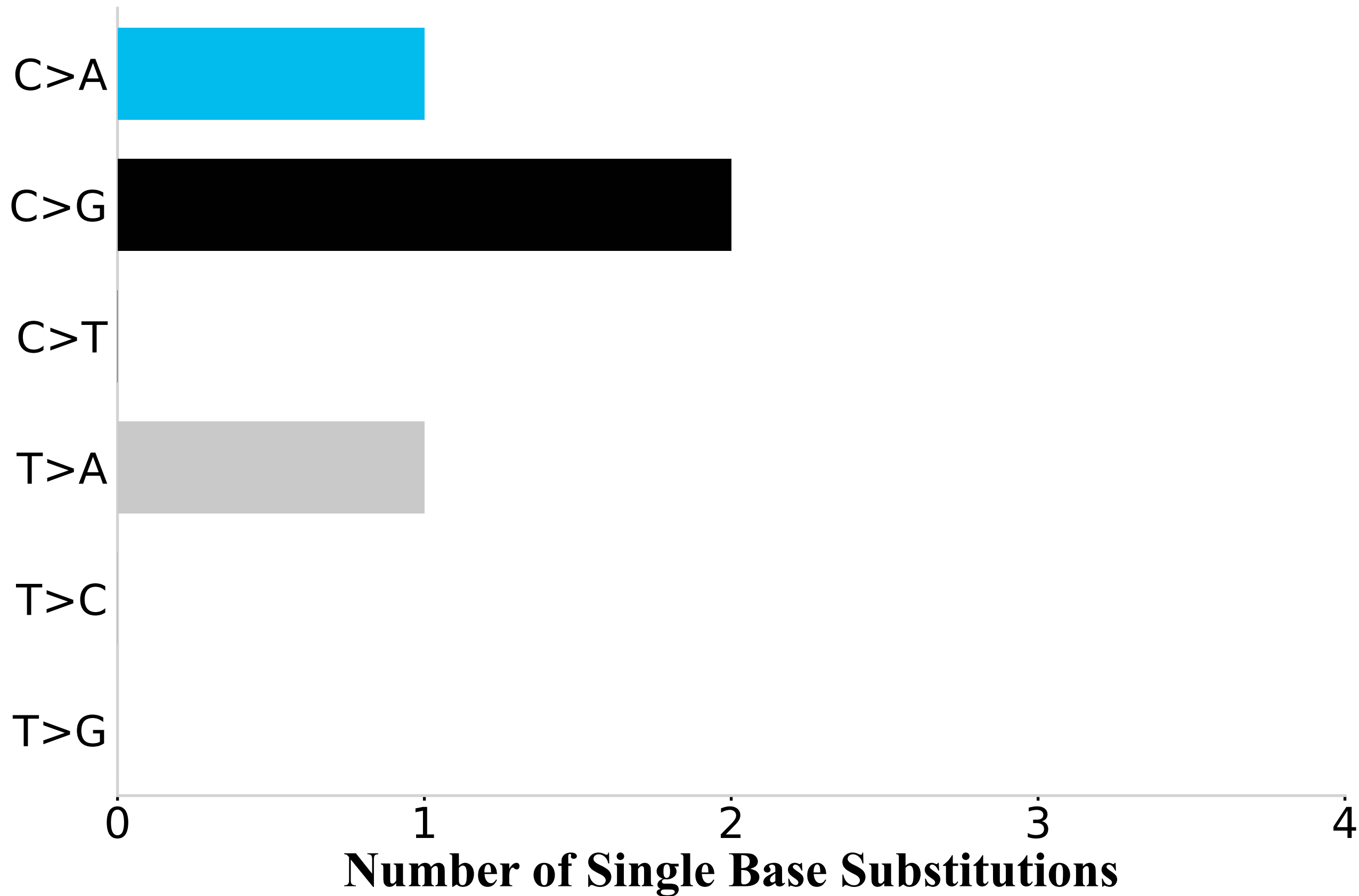
P-0014436-T01-IM6: 4 subs



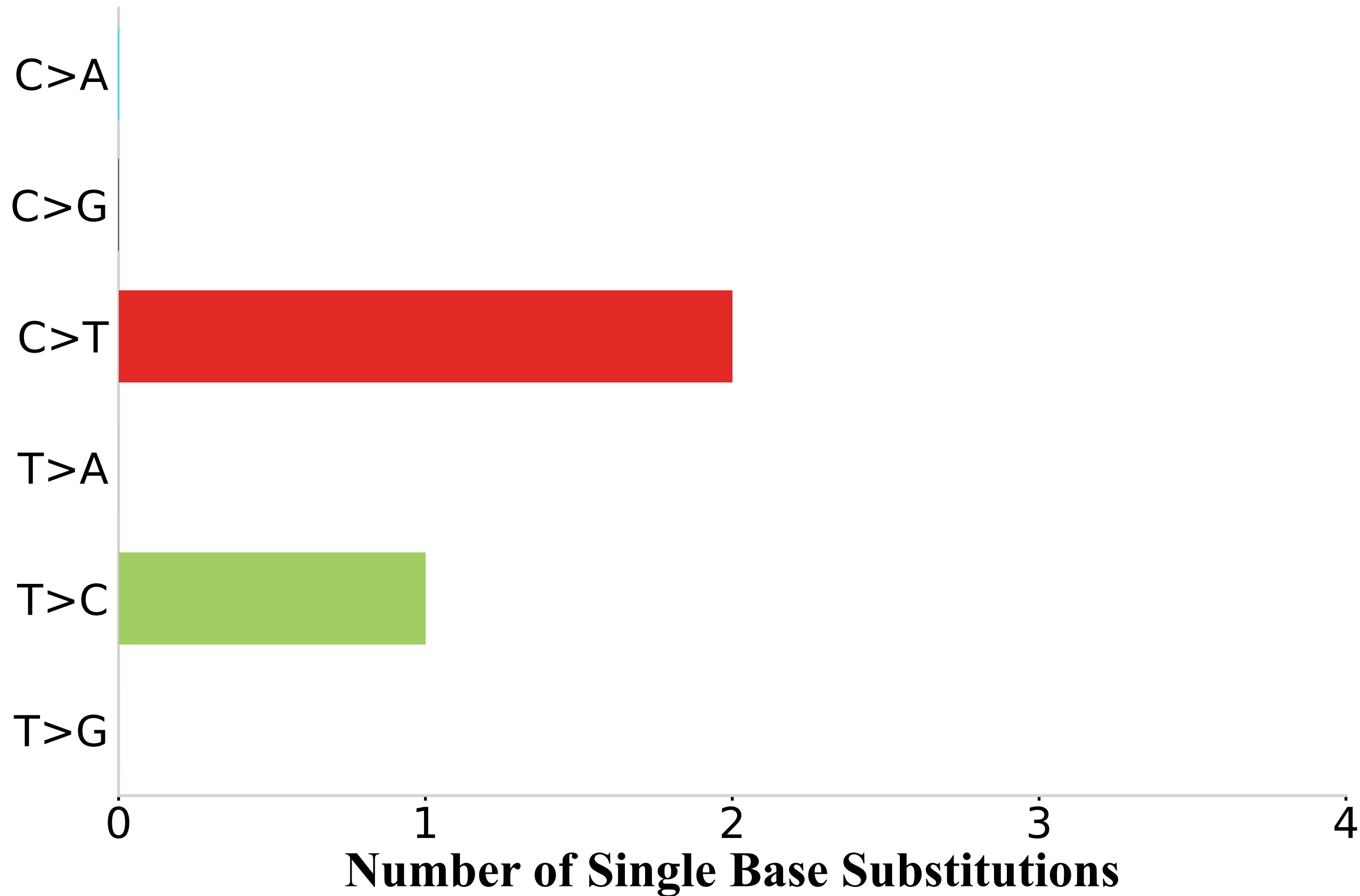
P-0014706-T01-IM6: 3 subs



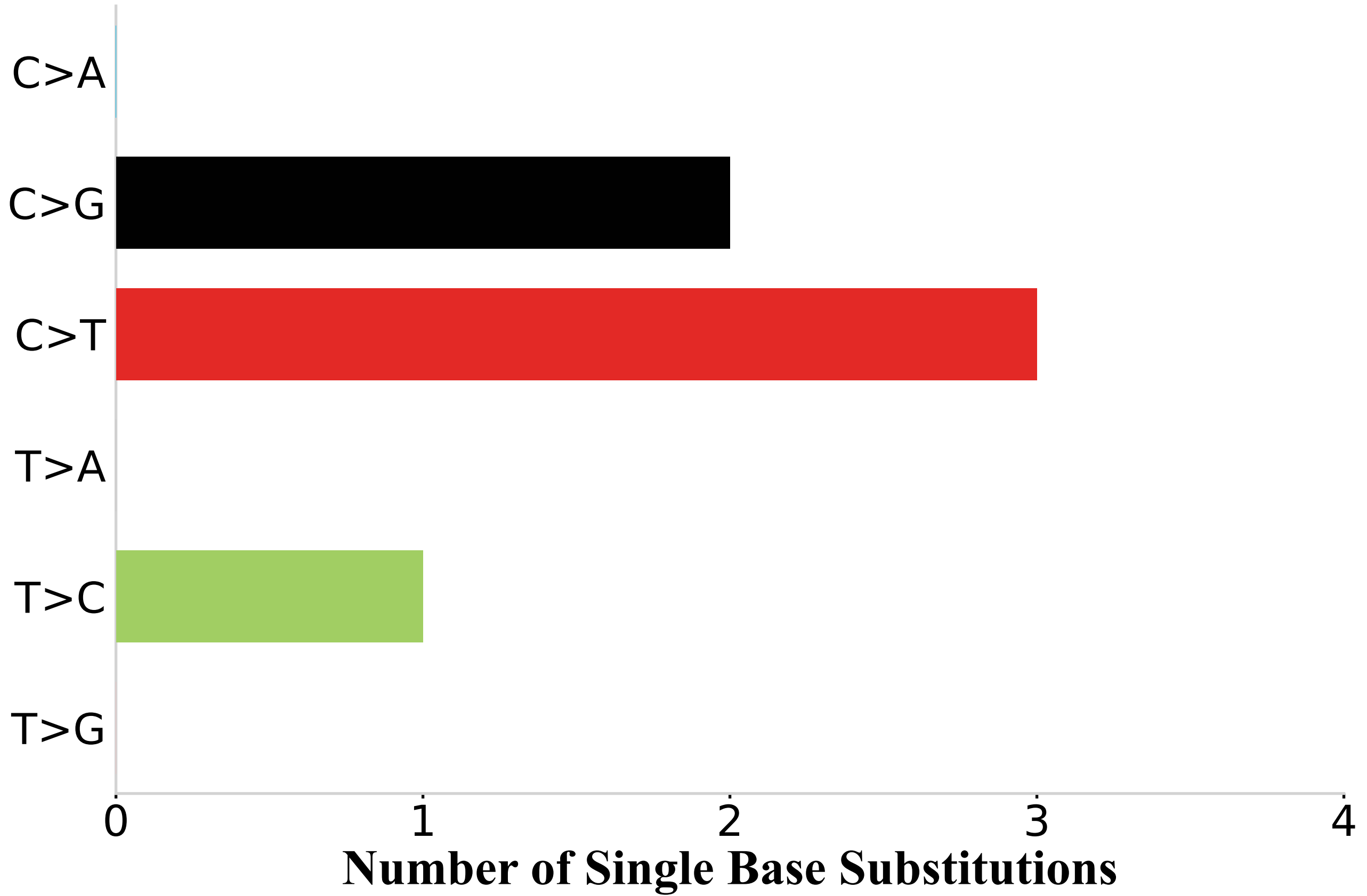
P-0014790-T01-IM6: 4 subs



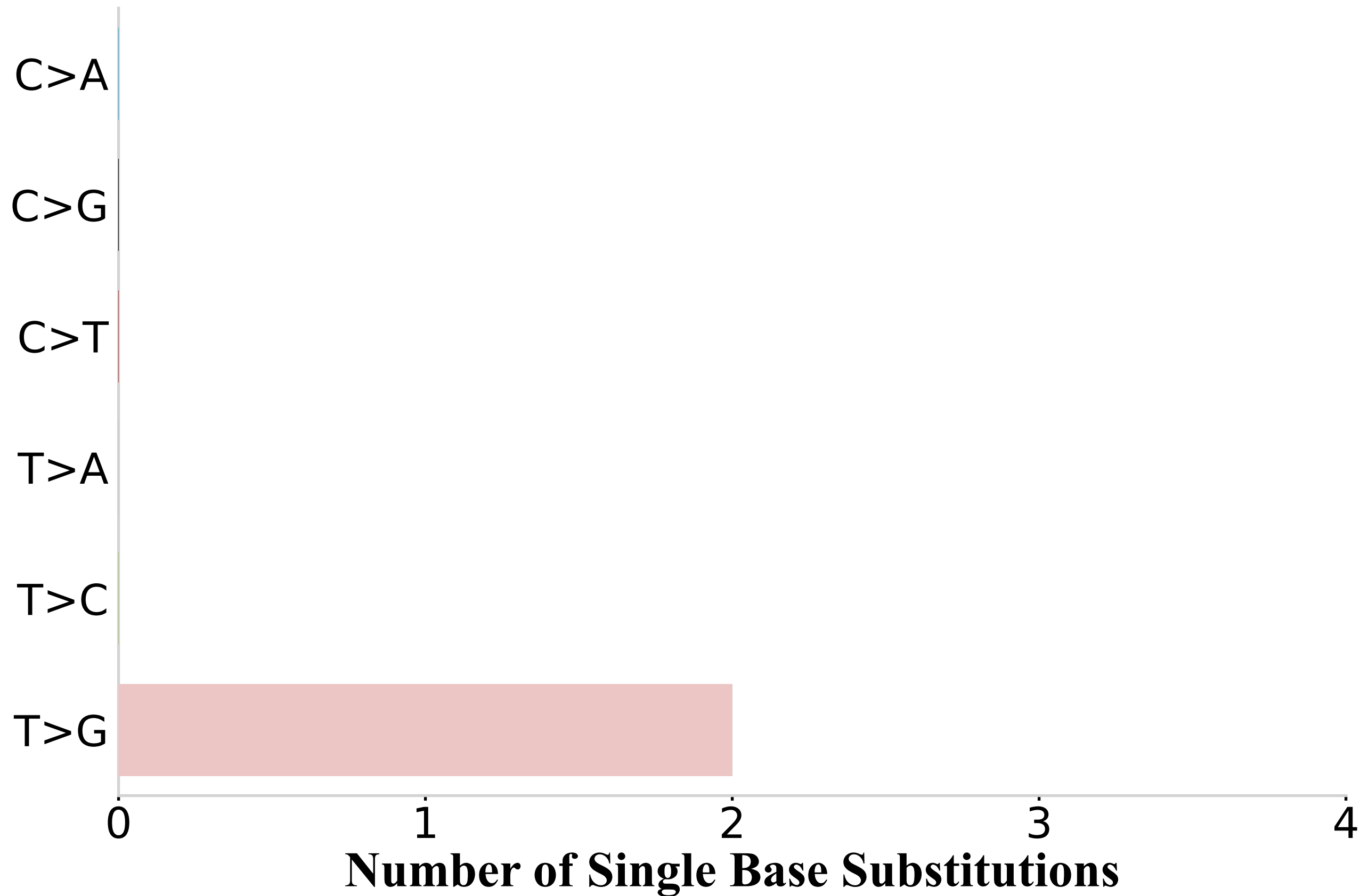
P-0015098-T01-IM6: 3 subs



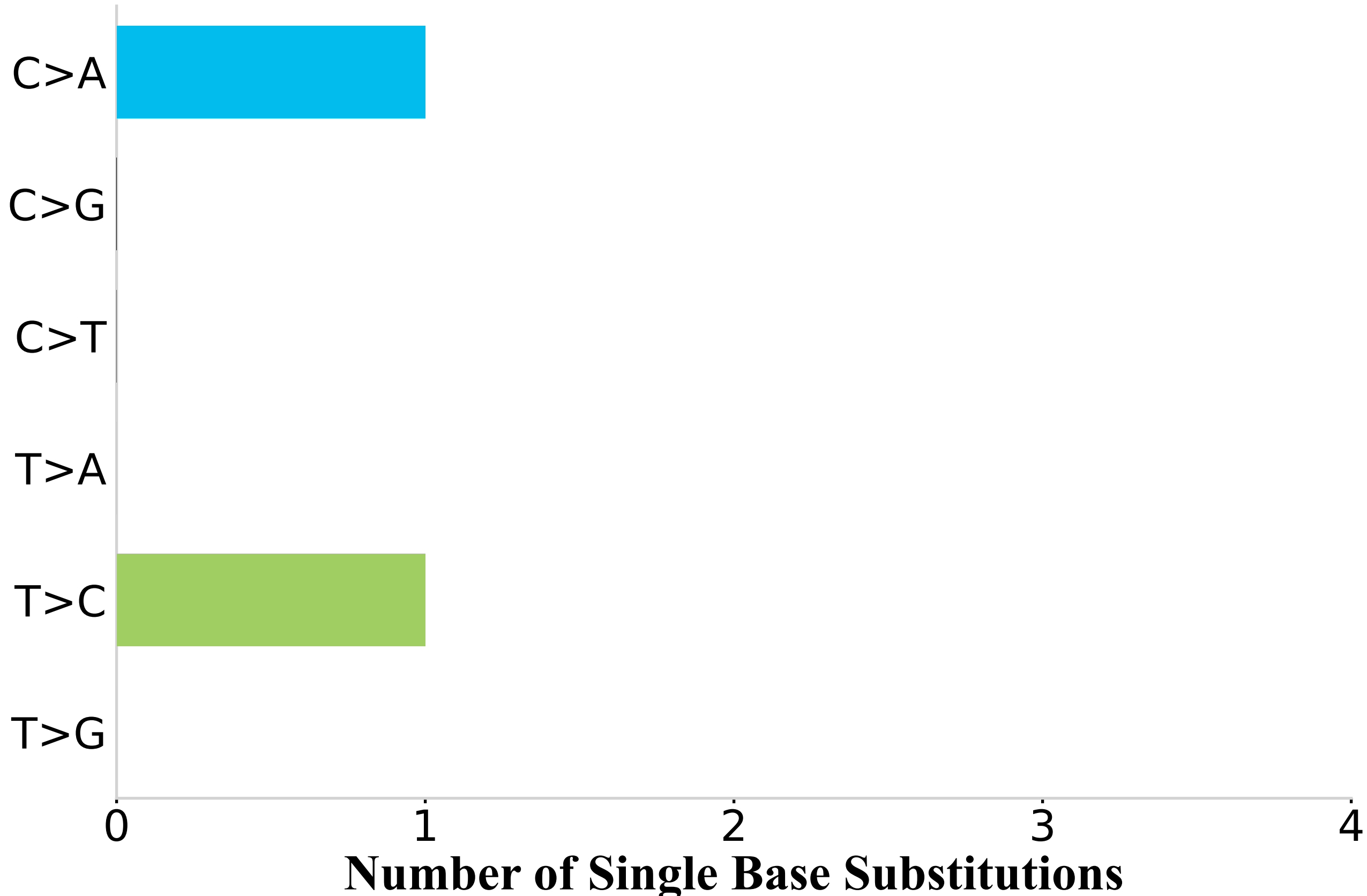
P-0015130-T01-IM6: 6 subs



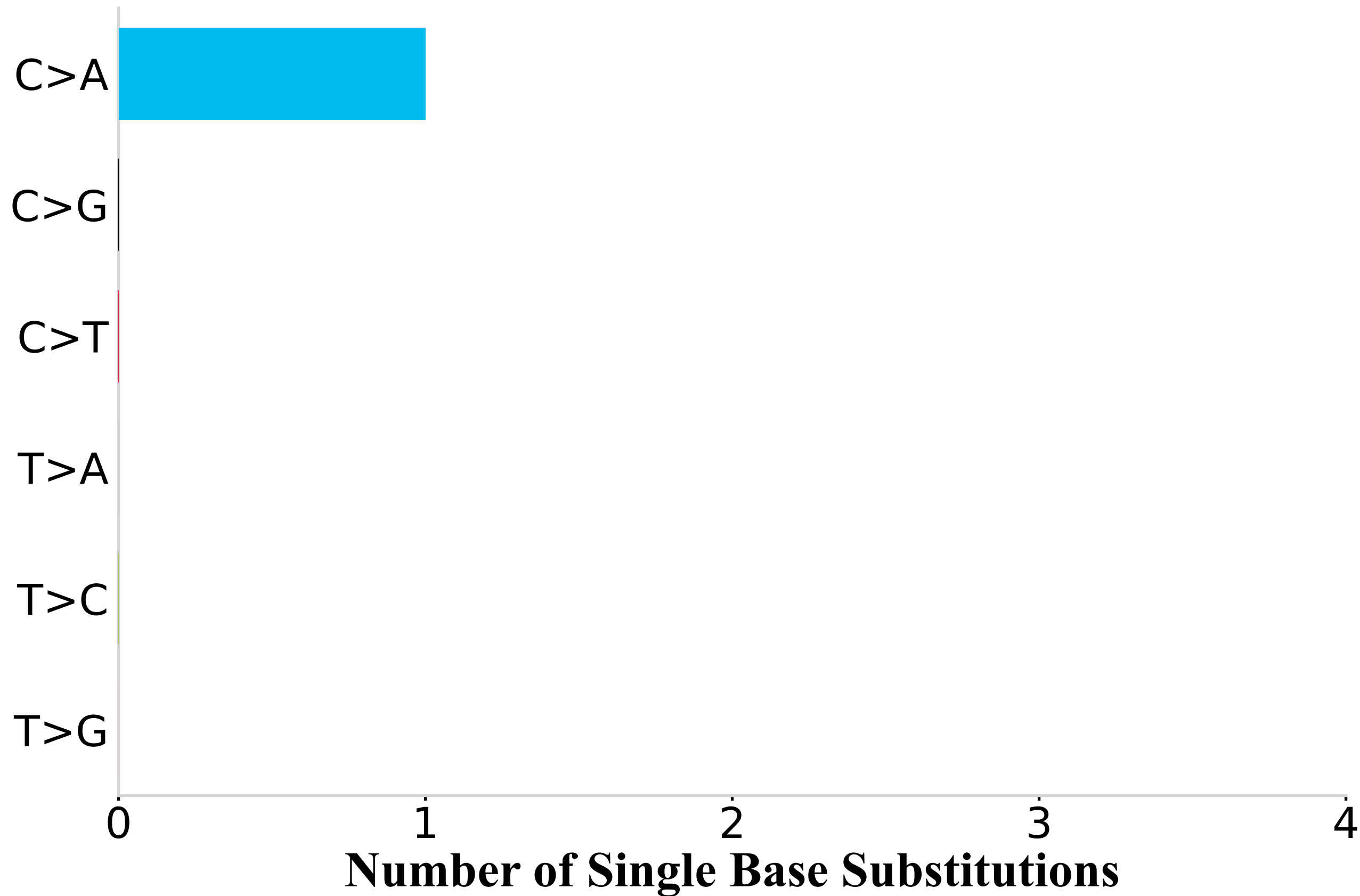
P-0015430-T01-IM6: 2 subs



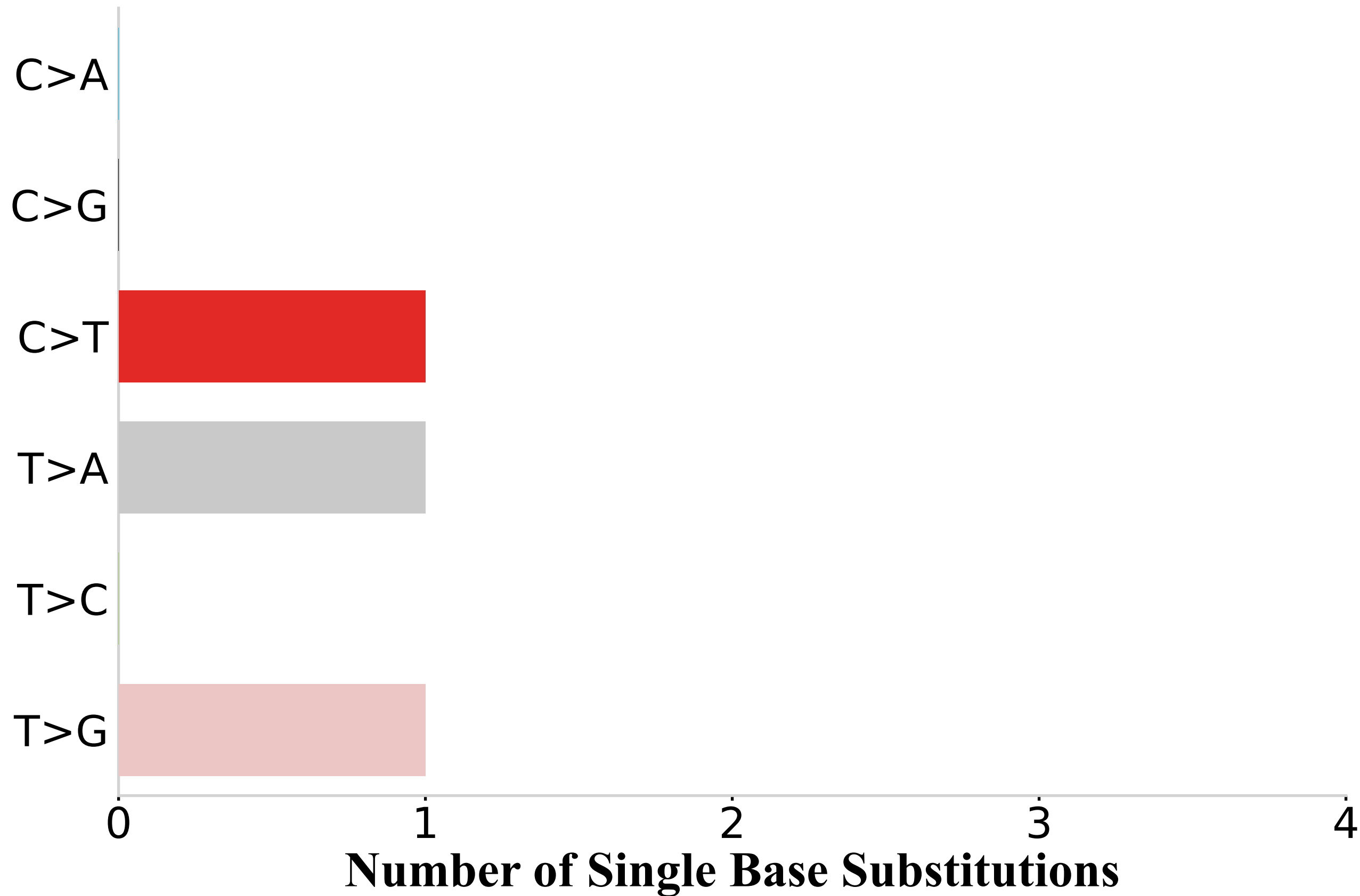
P-0015533-T01-IM6: 2 subs



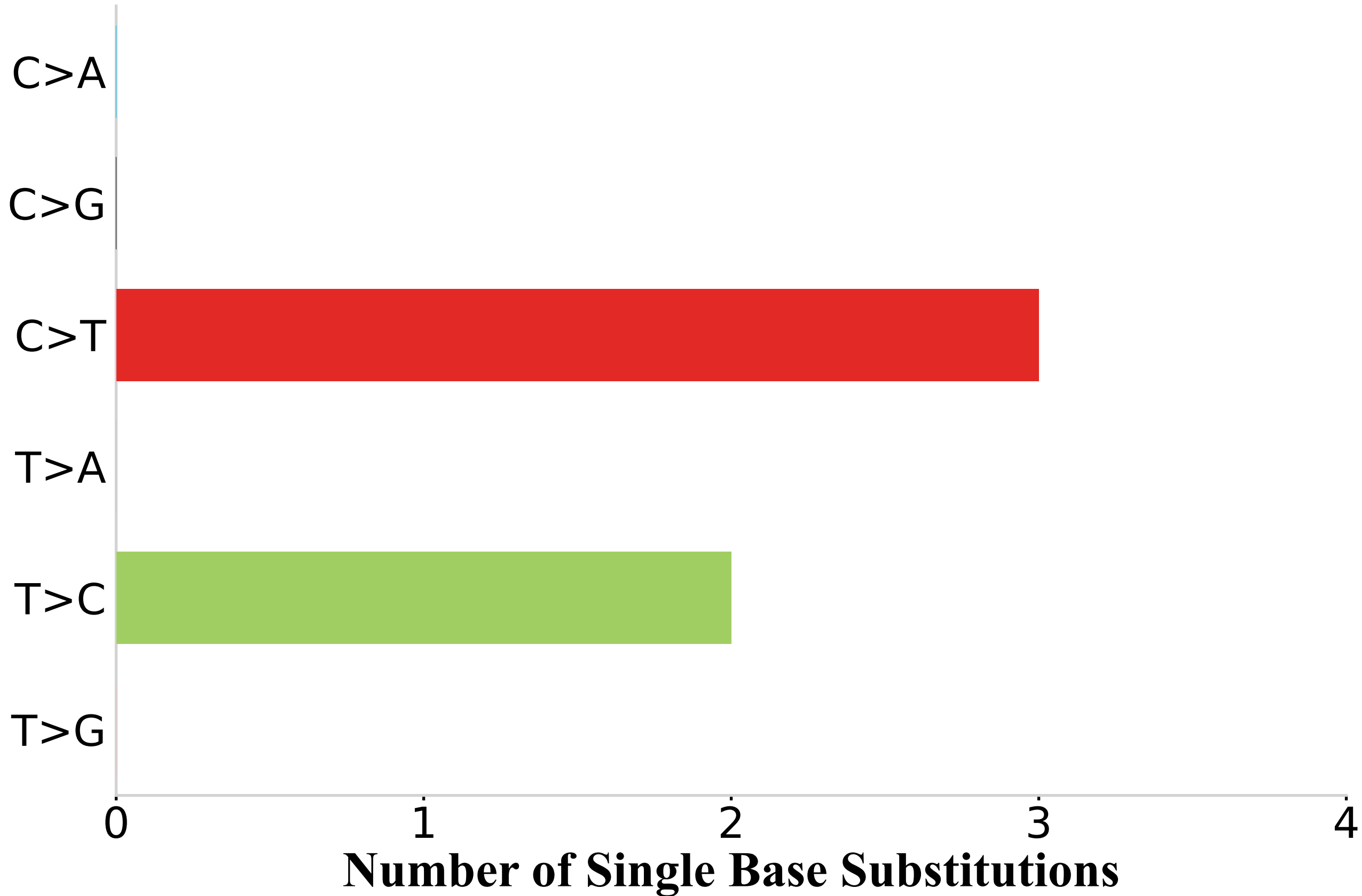
P-0015559-T01-IM6: 1 subs



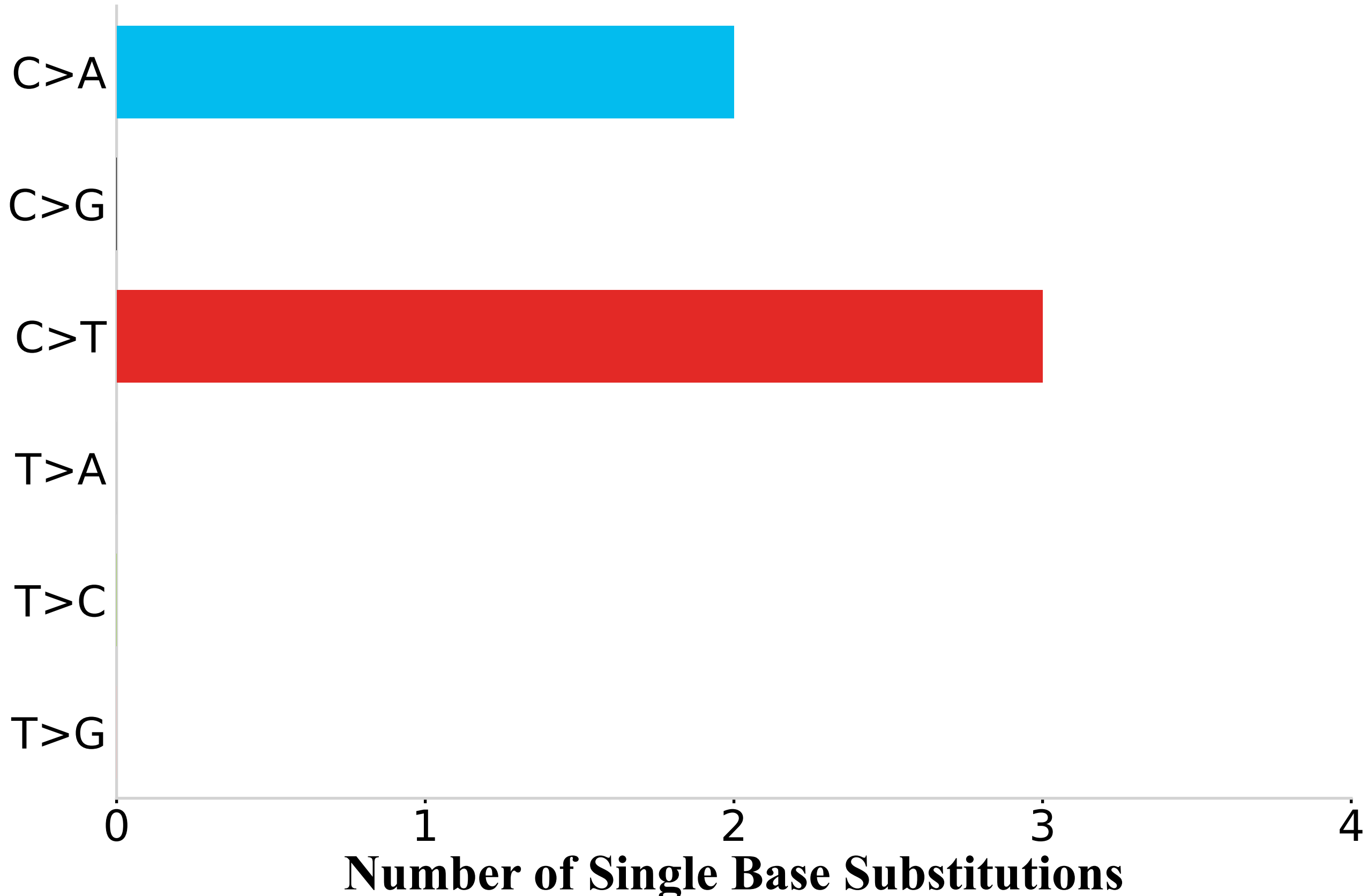
P-0015676-T01-IM6: 3 subs



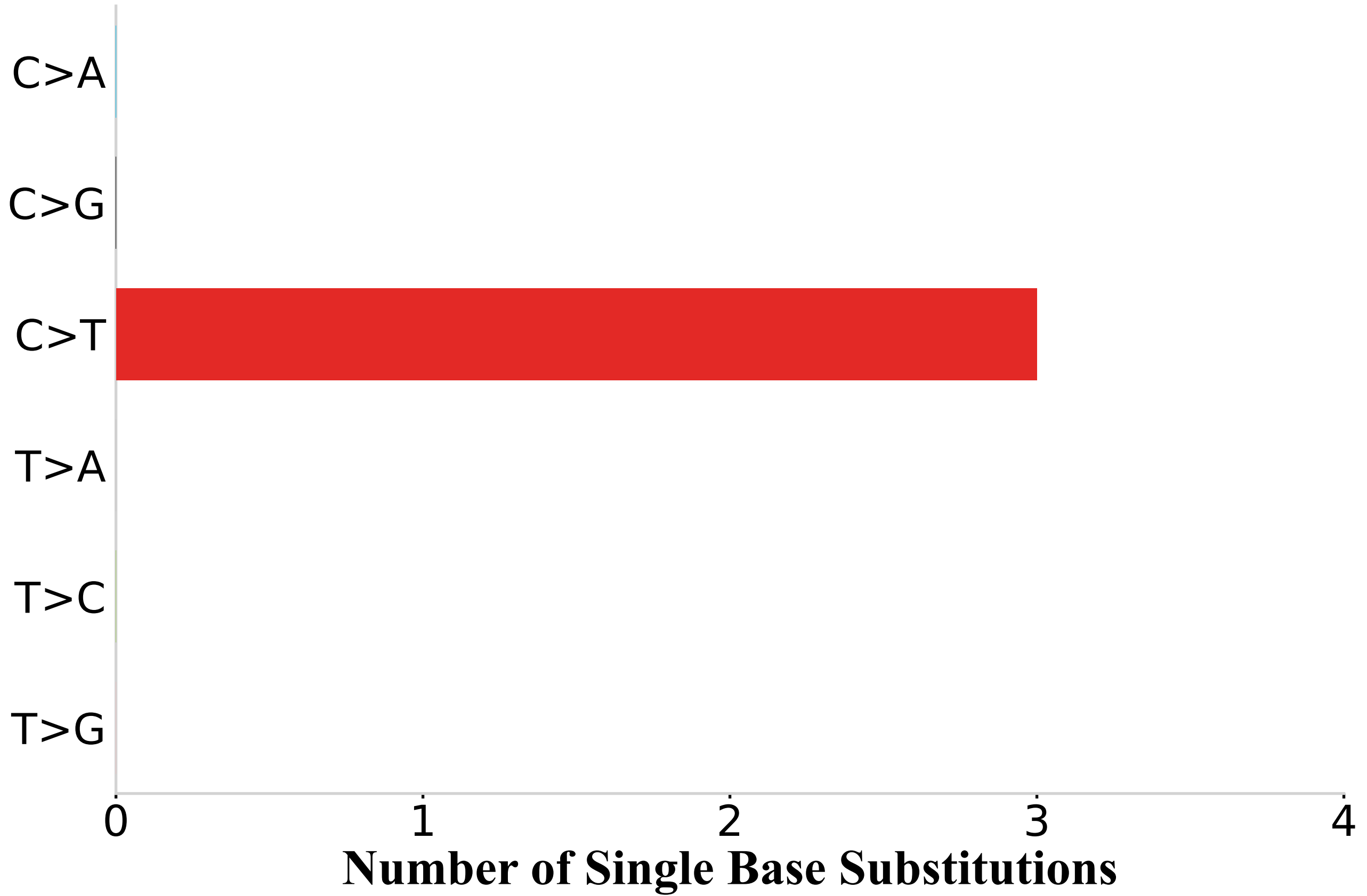
P-0015764-T01-IM6: 5 subs



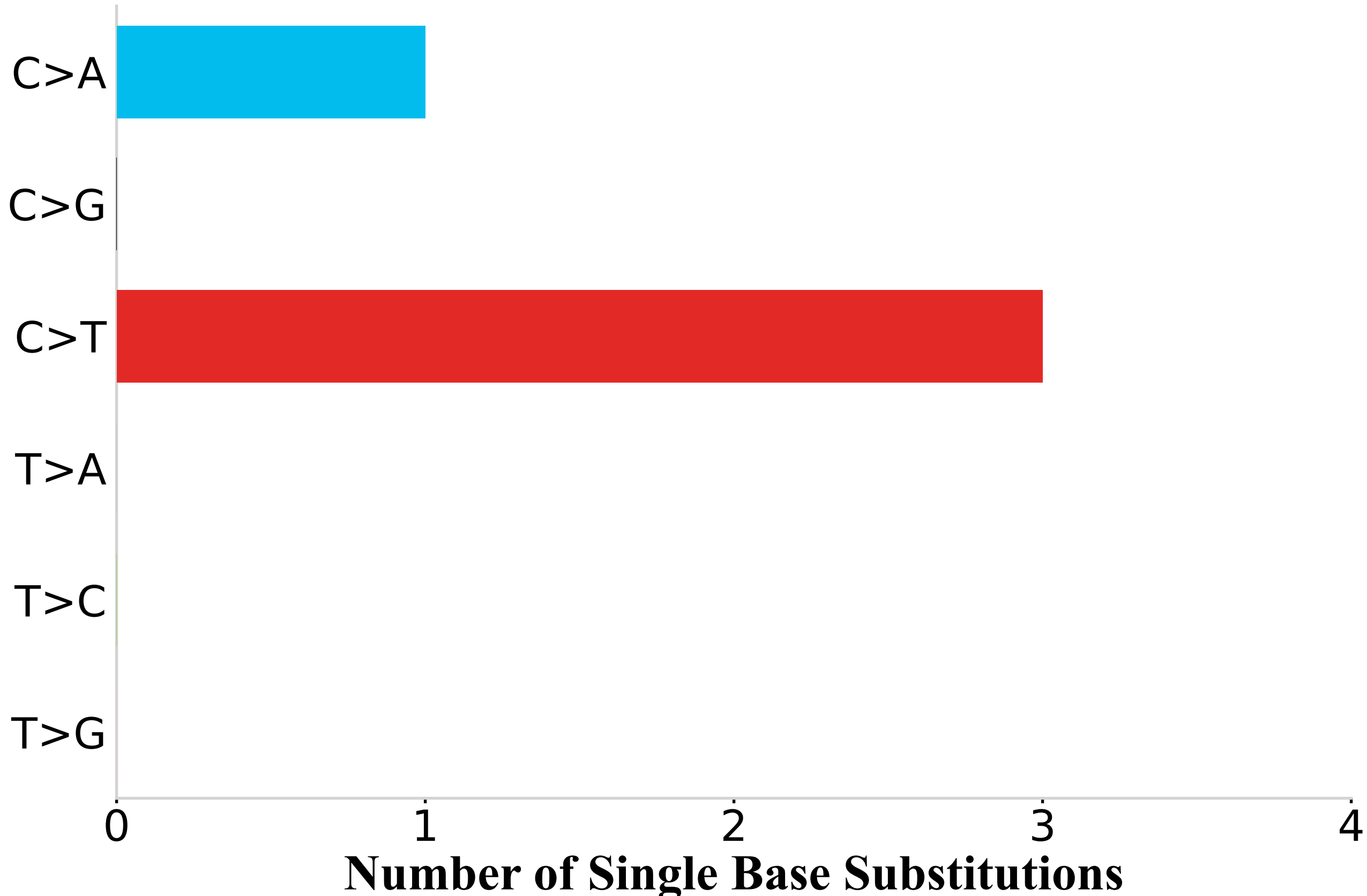
P-0015875-T01-IM6: 5 subs



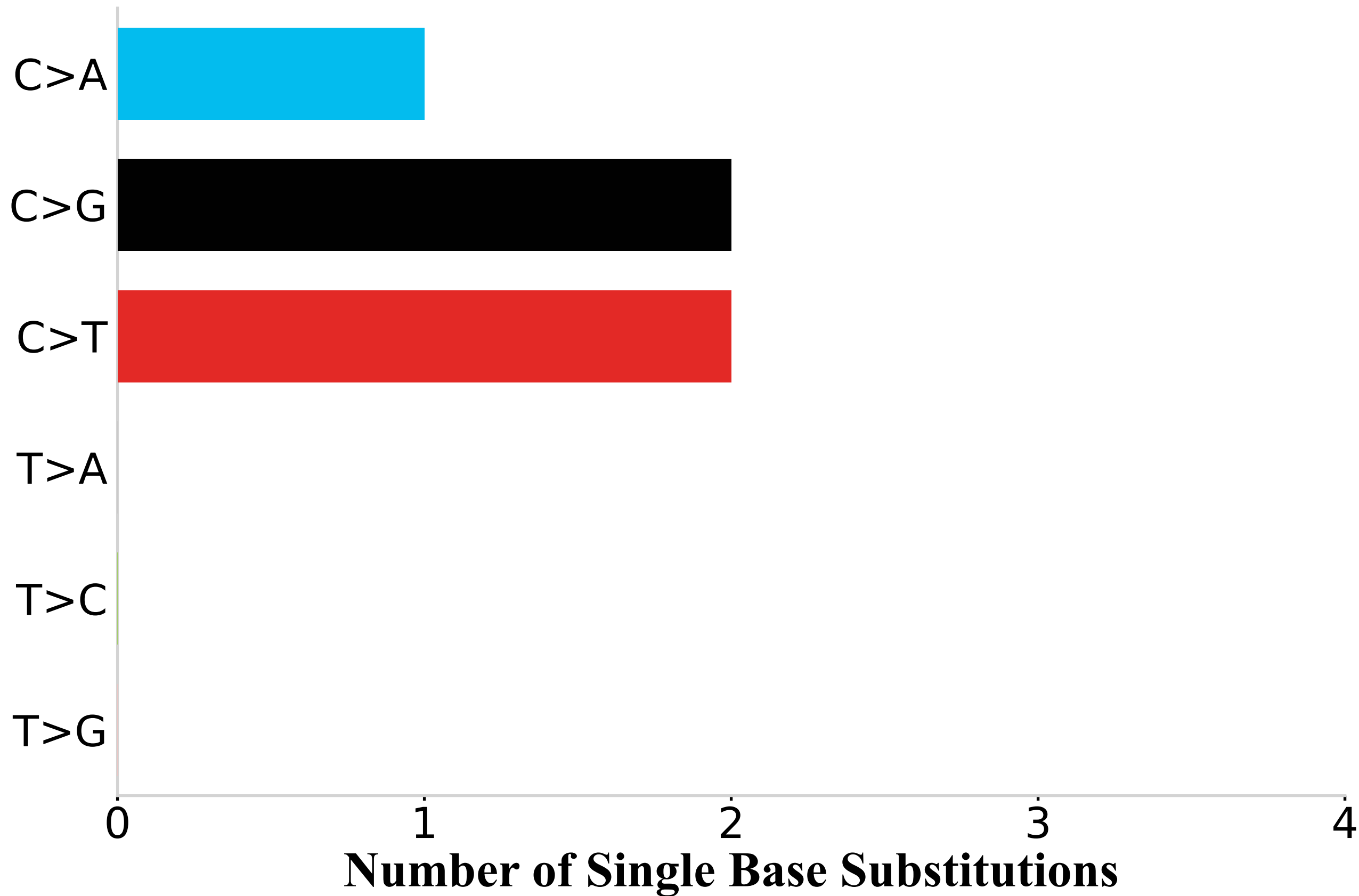
P-0015896-T01-IM6: 3 subs



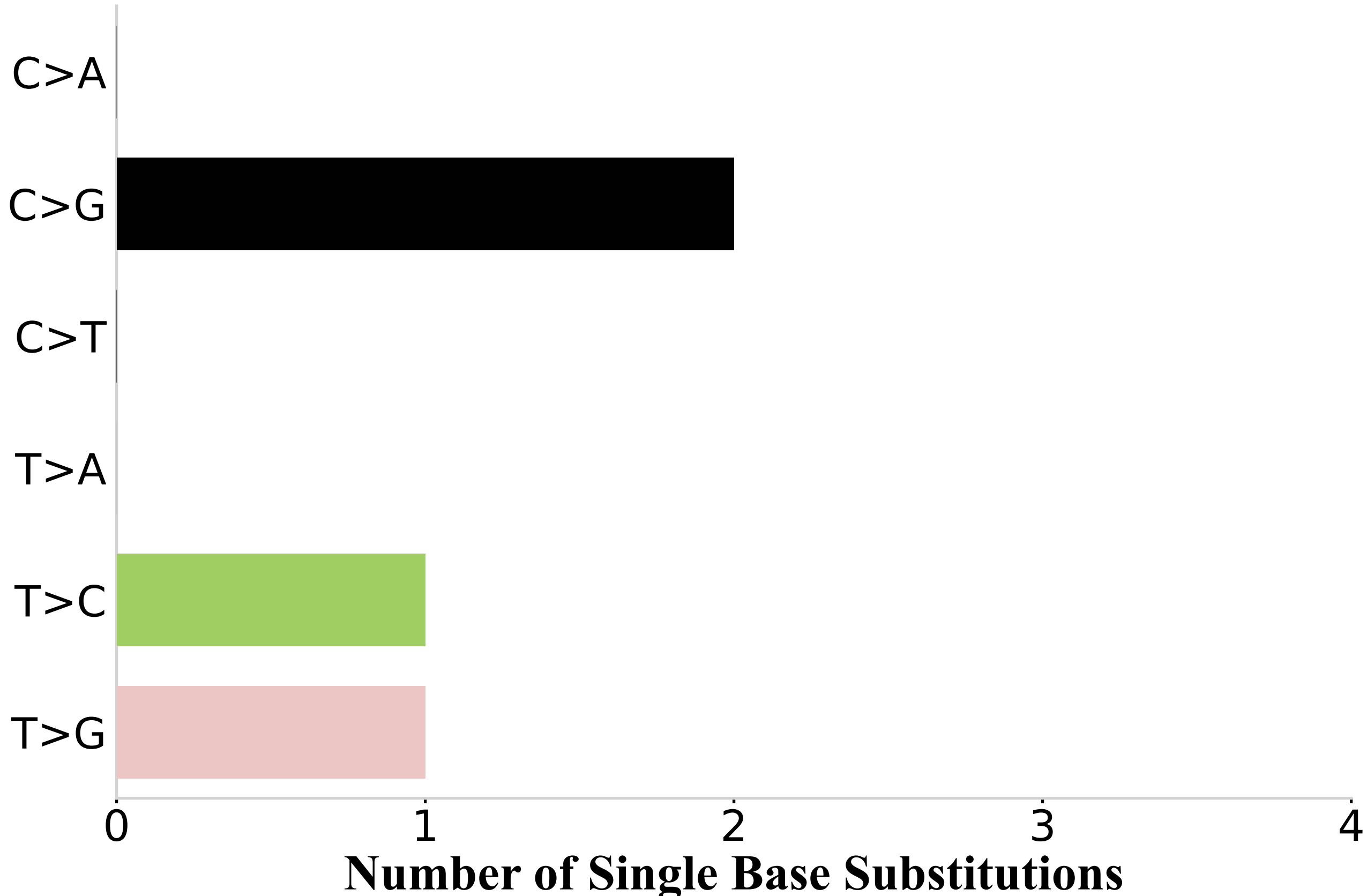
P-0015980-T01-IM6: 4 subs



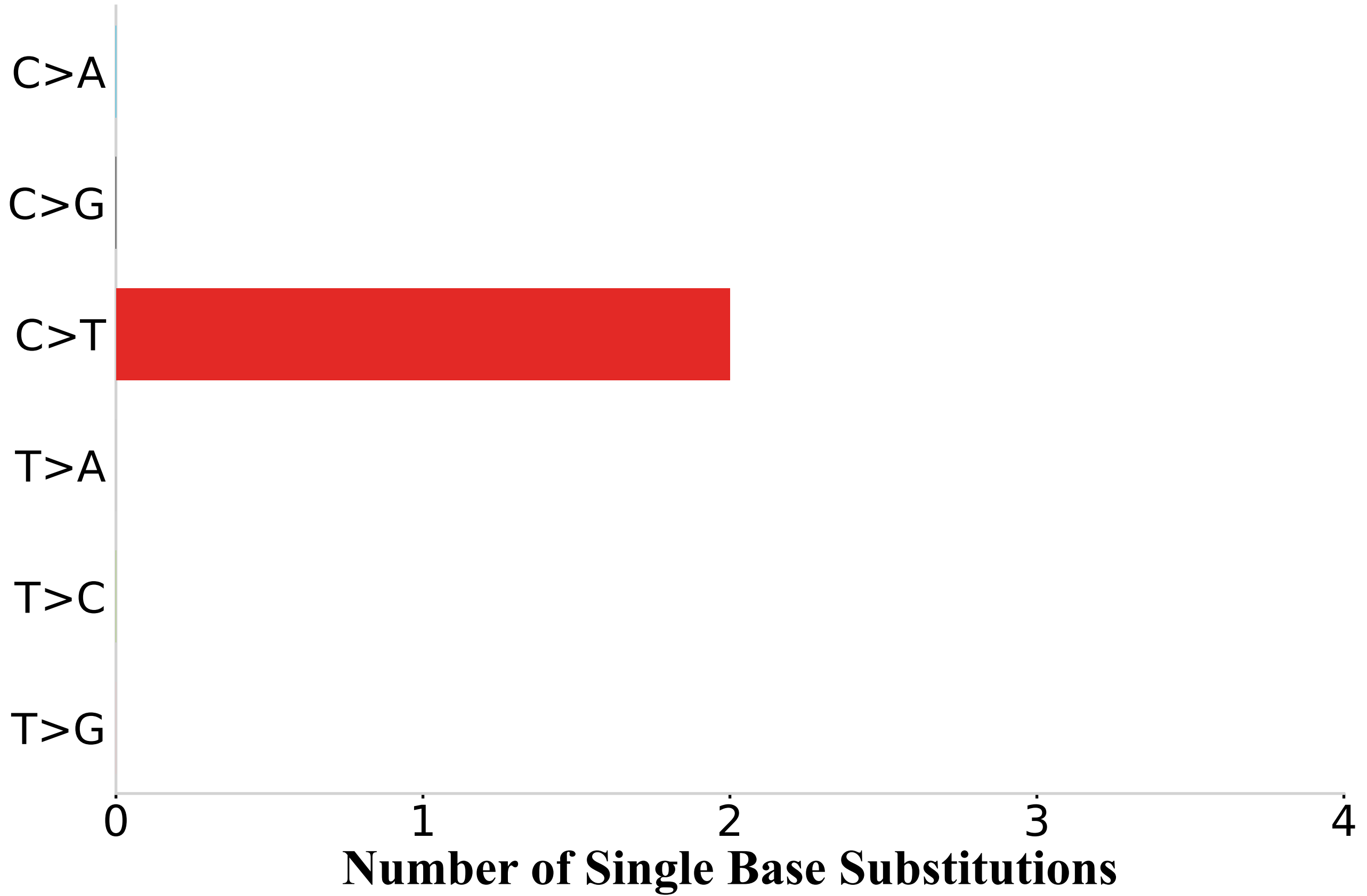
P-0016263-T01-IM6: 5 subs



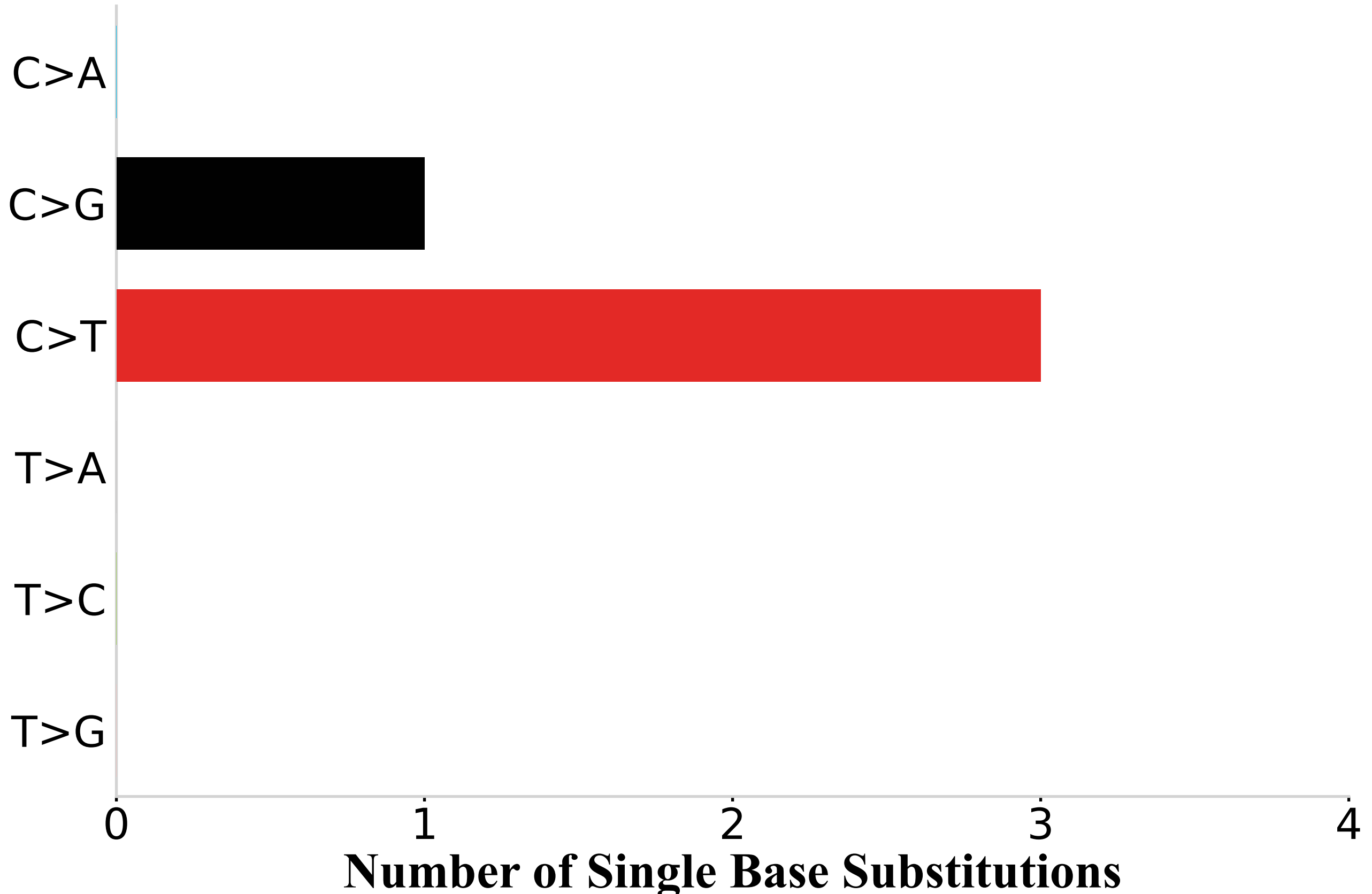
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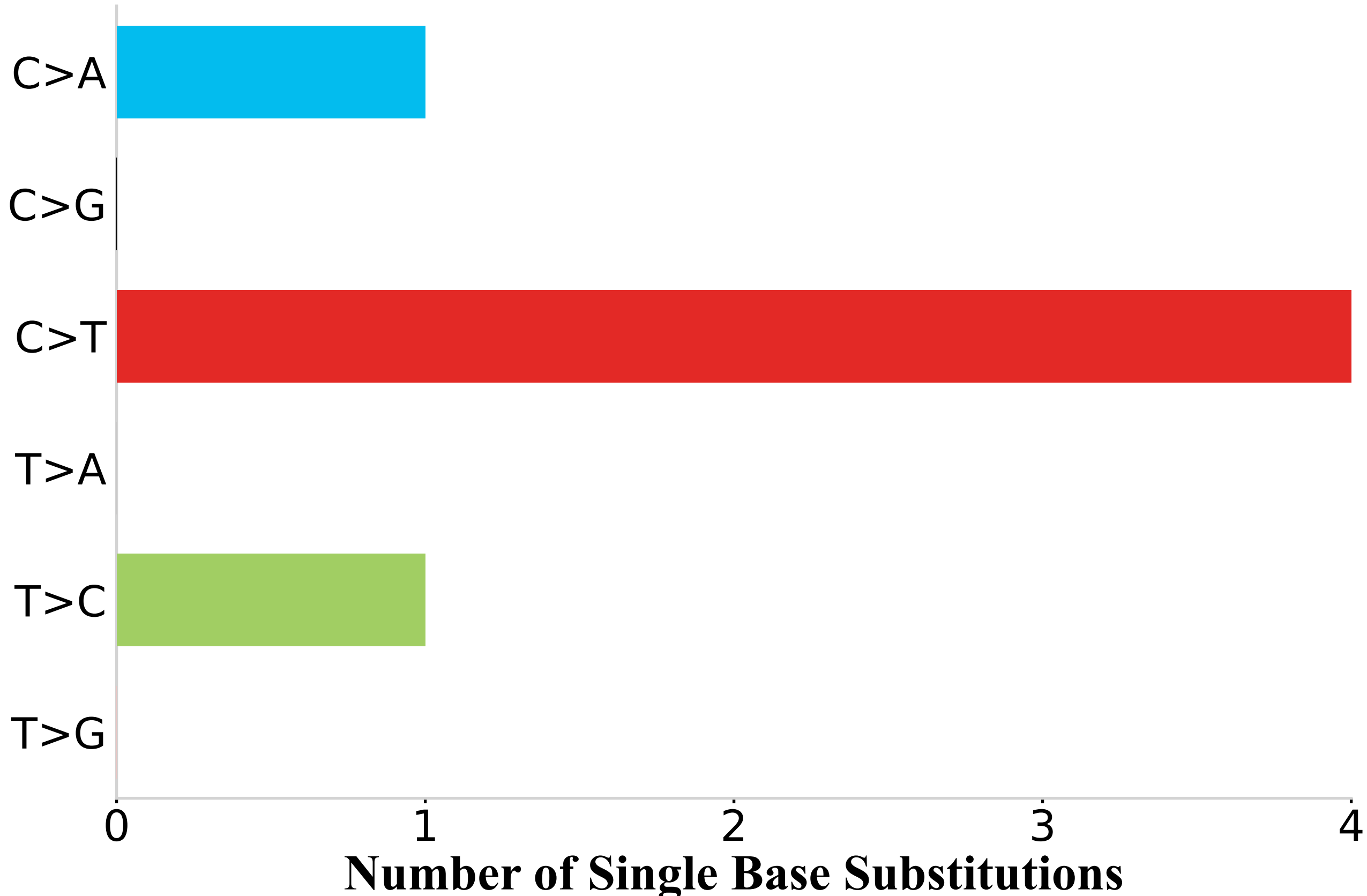
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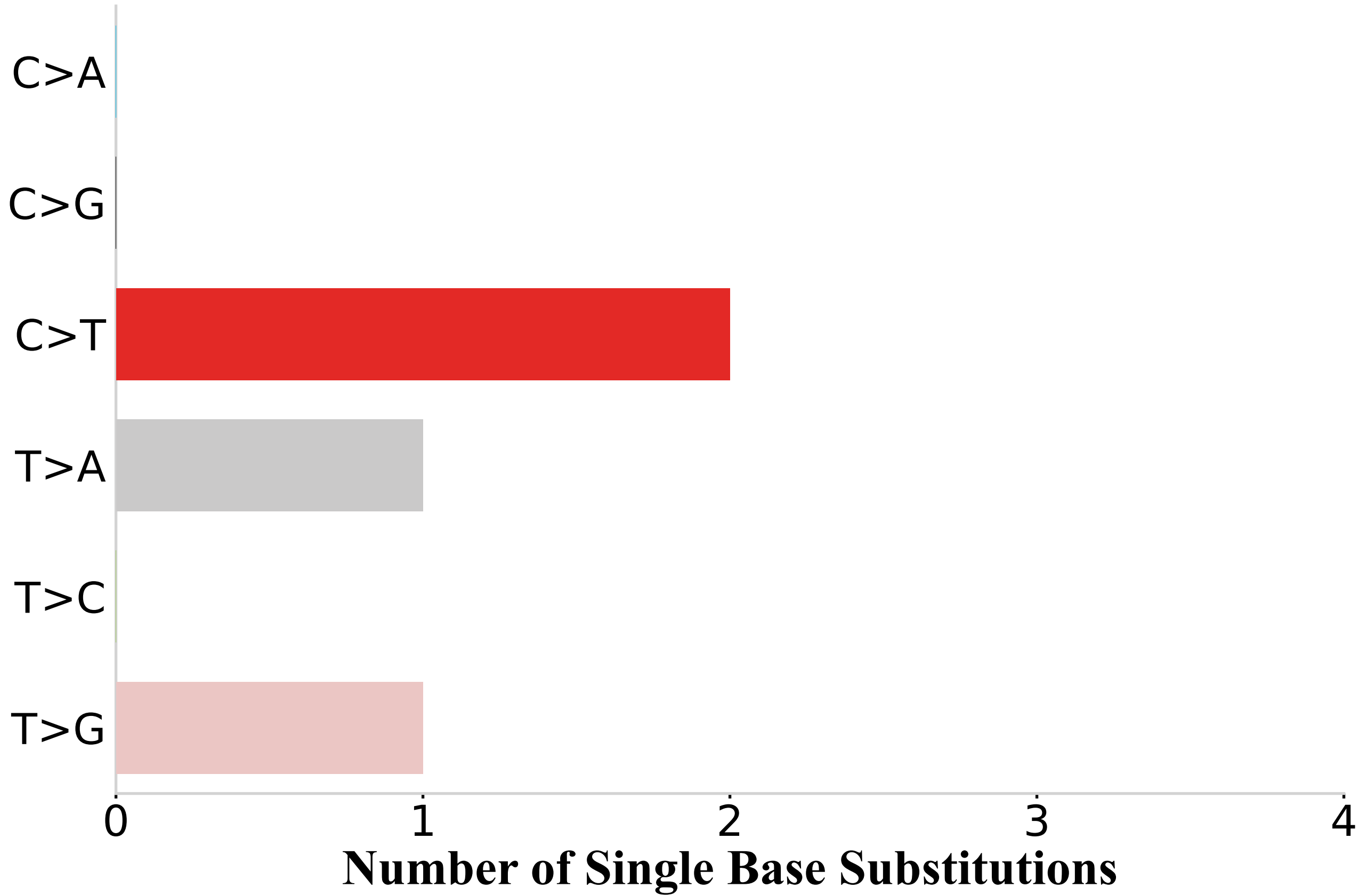
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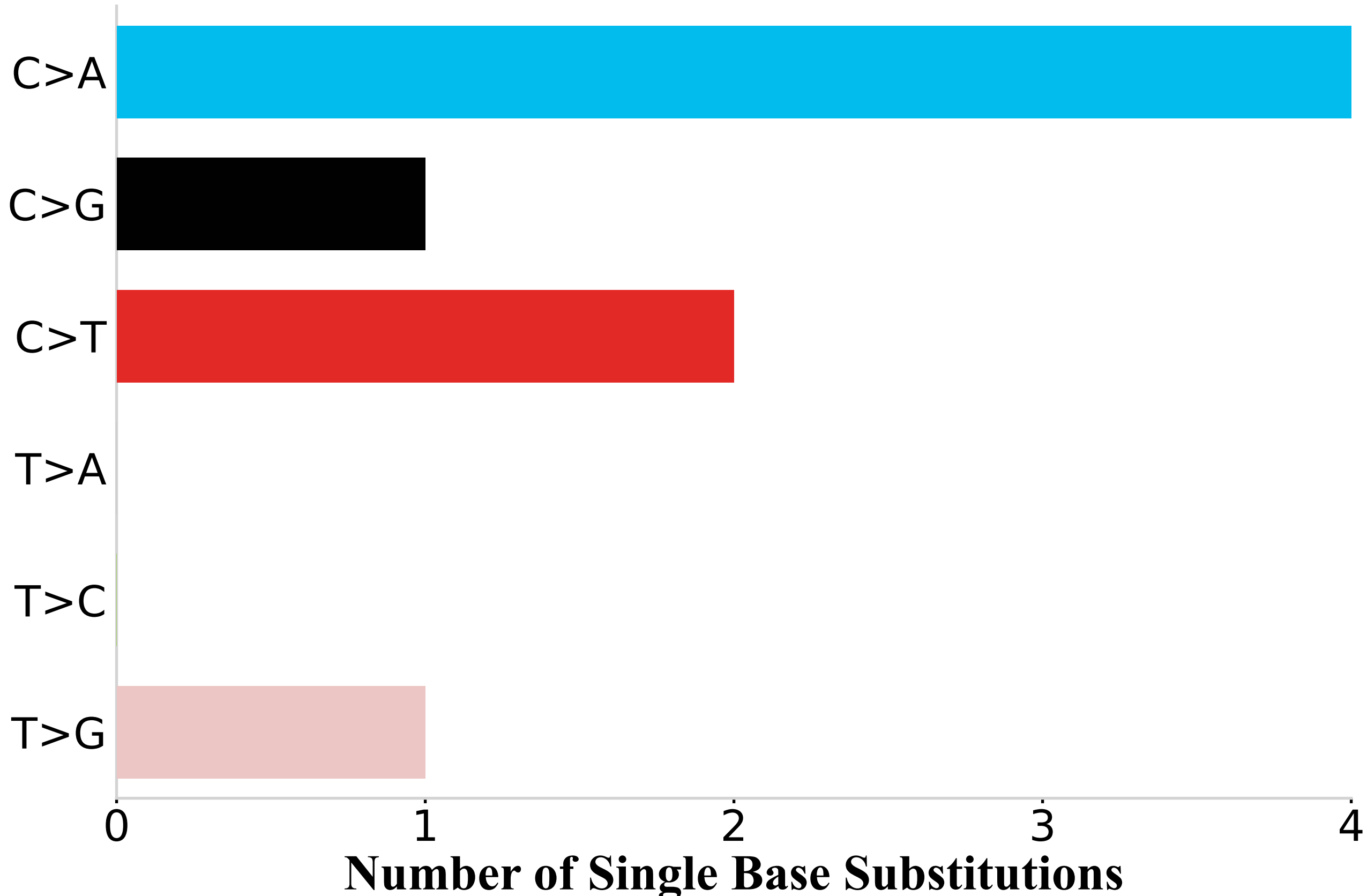
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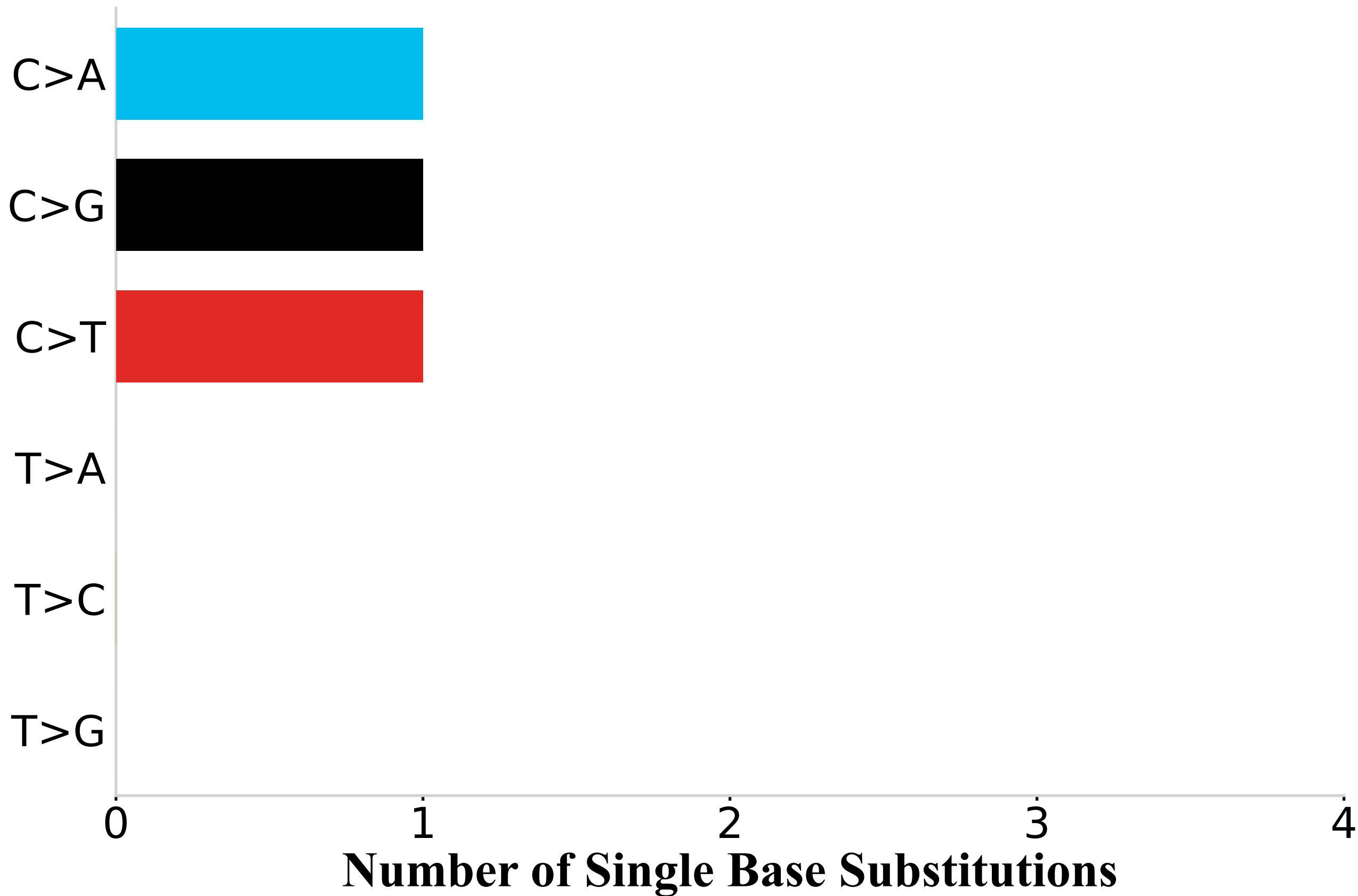
P-0017014-T01-IM6: 4 subs



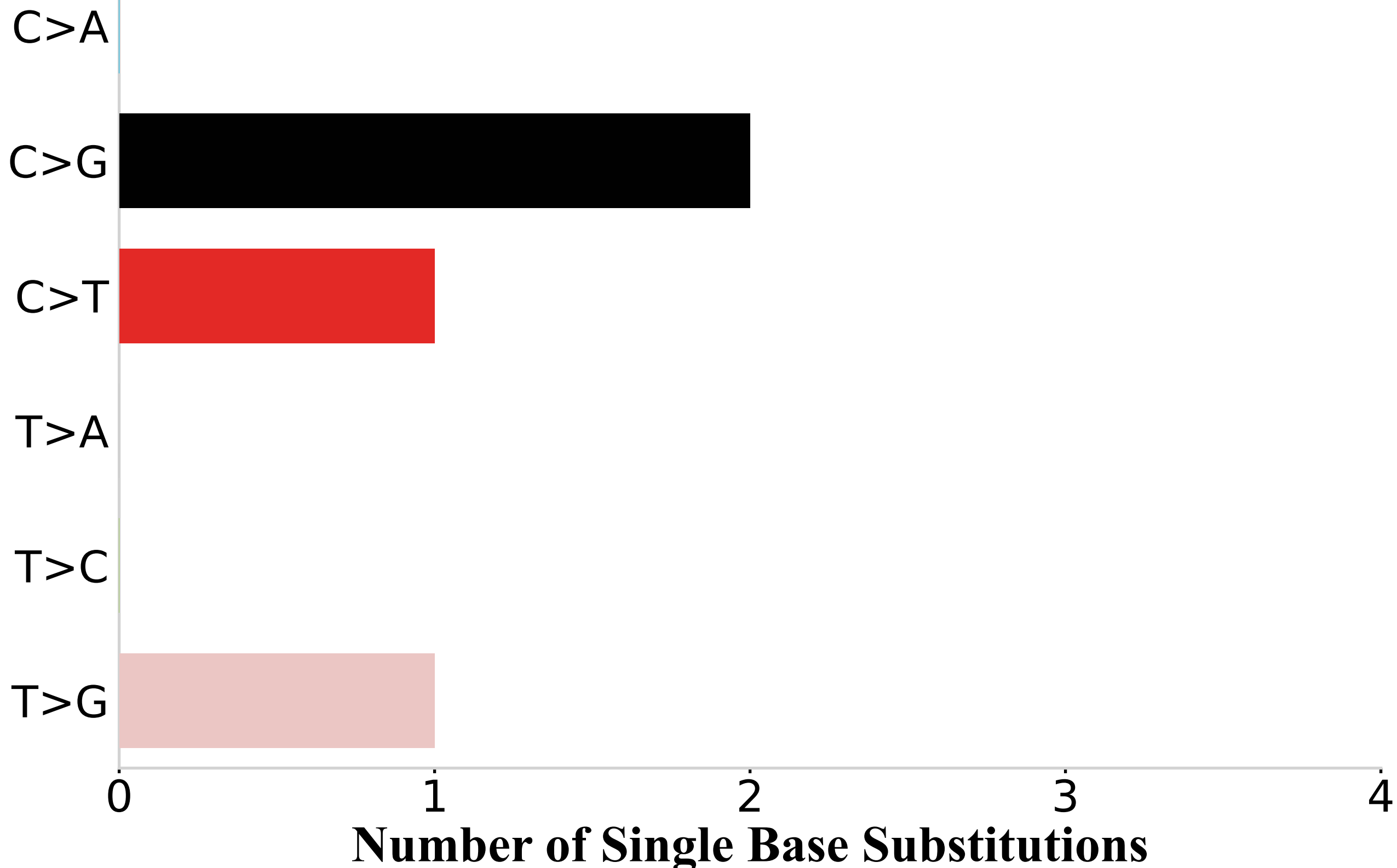
P-0017023-T02-IM6: 8 subs



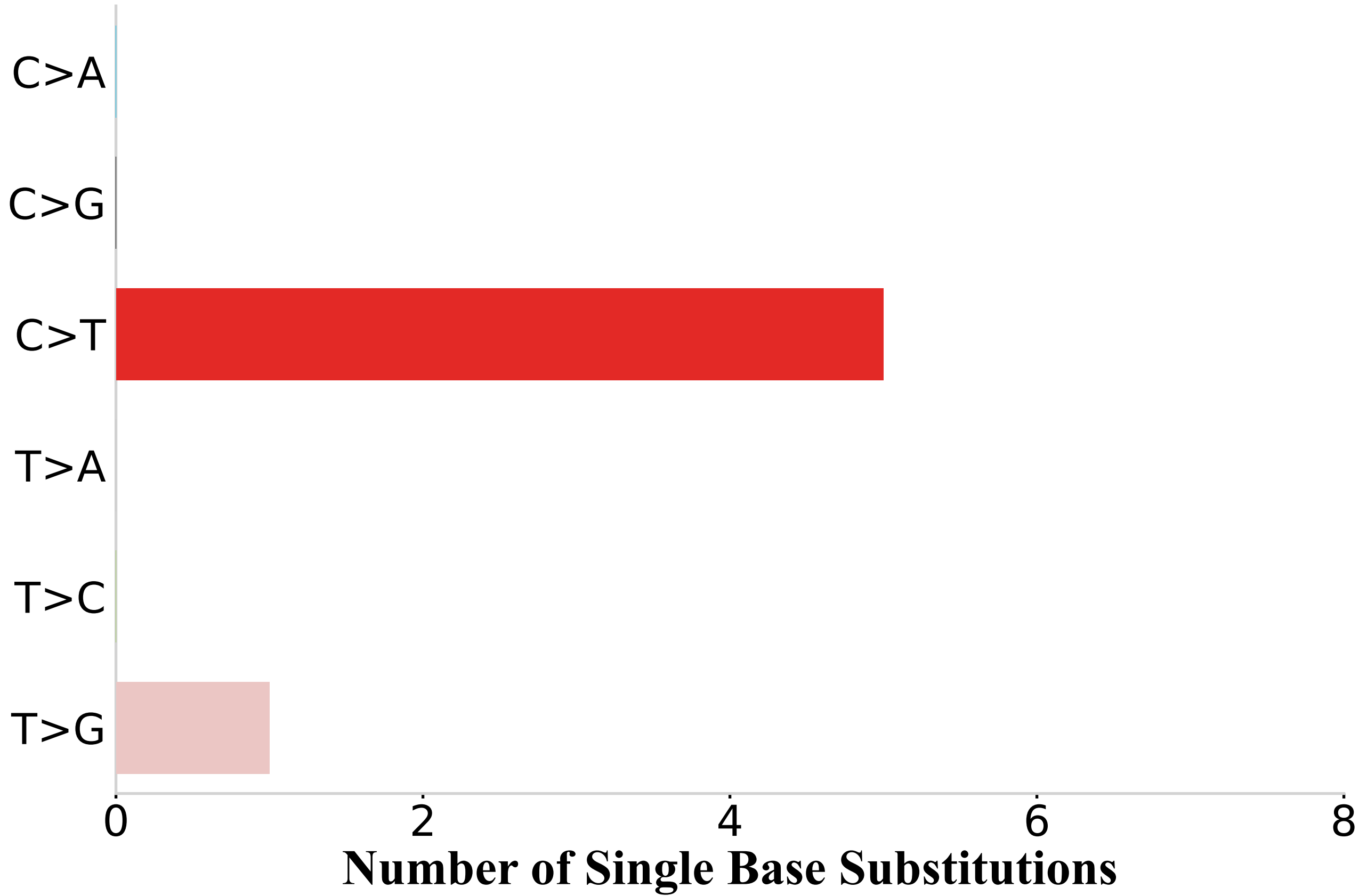
P-0017050-T01-IM6: 3 subs



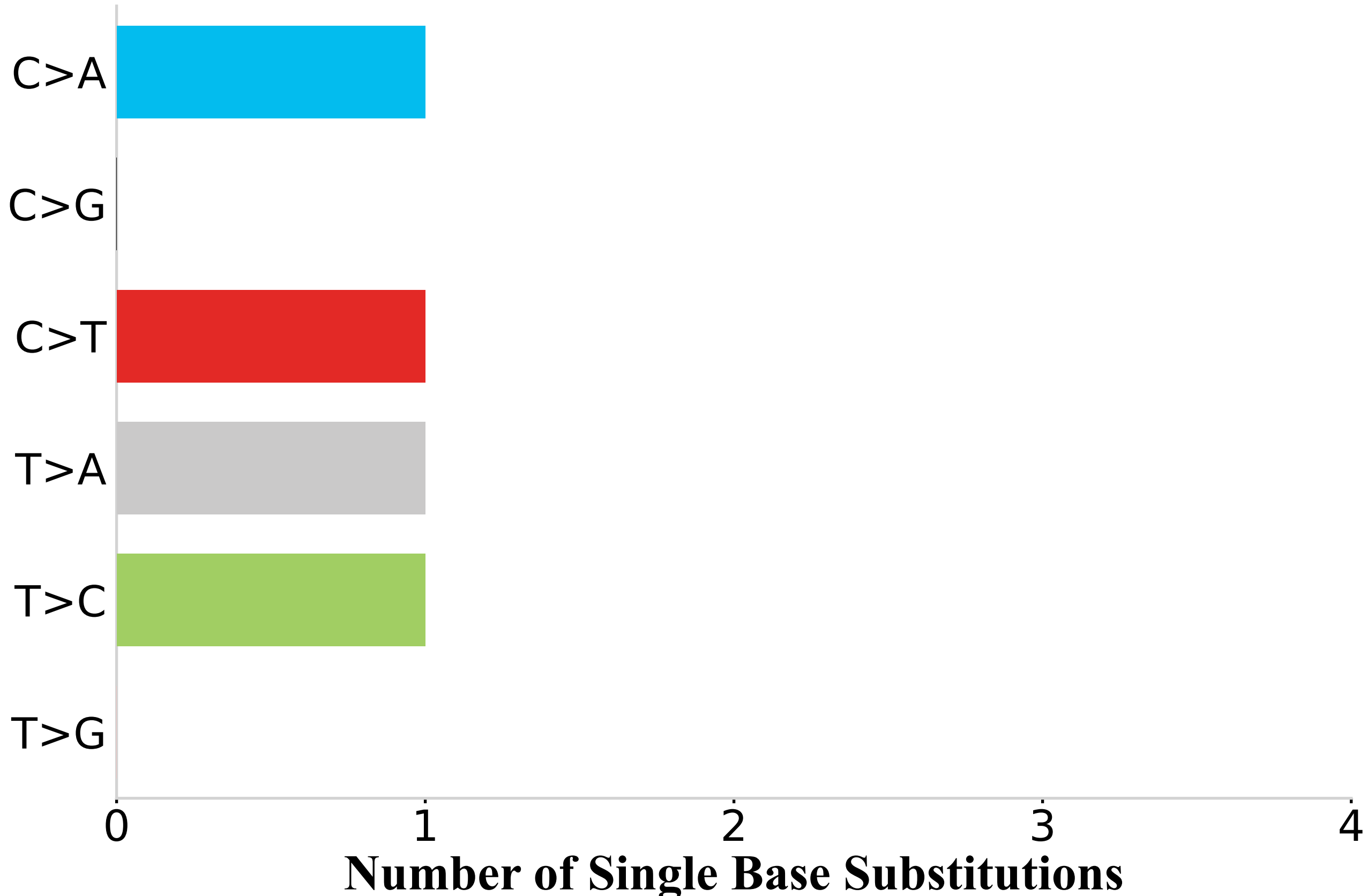
P-0017060-T01-IM6: 4 subs



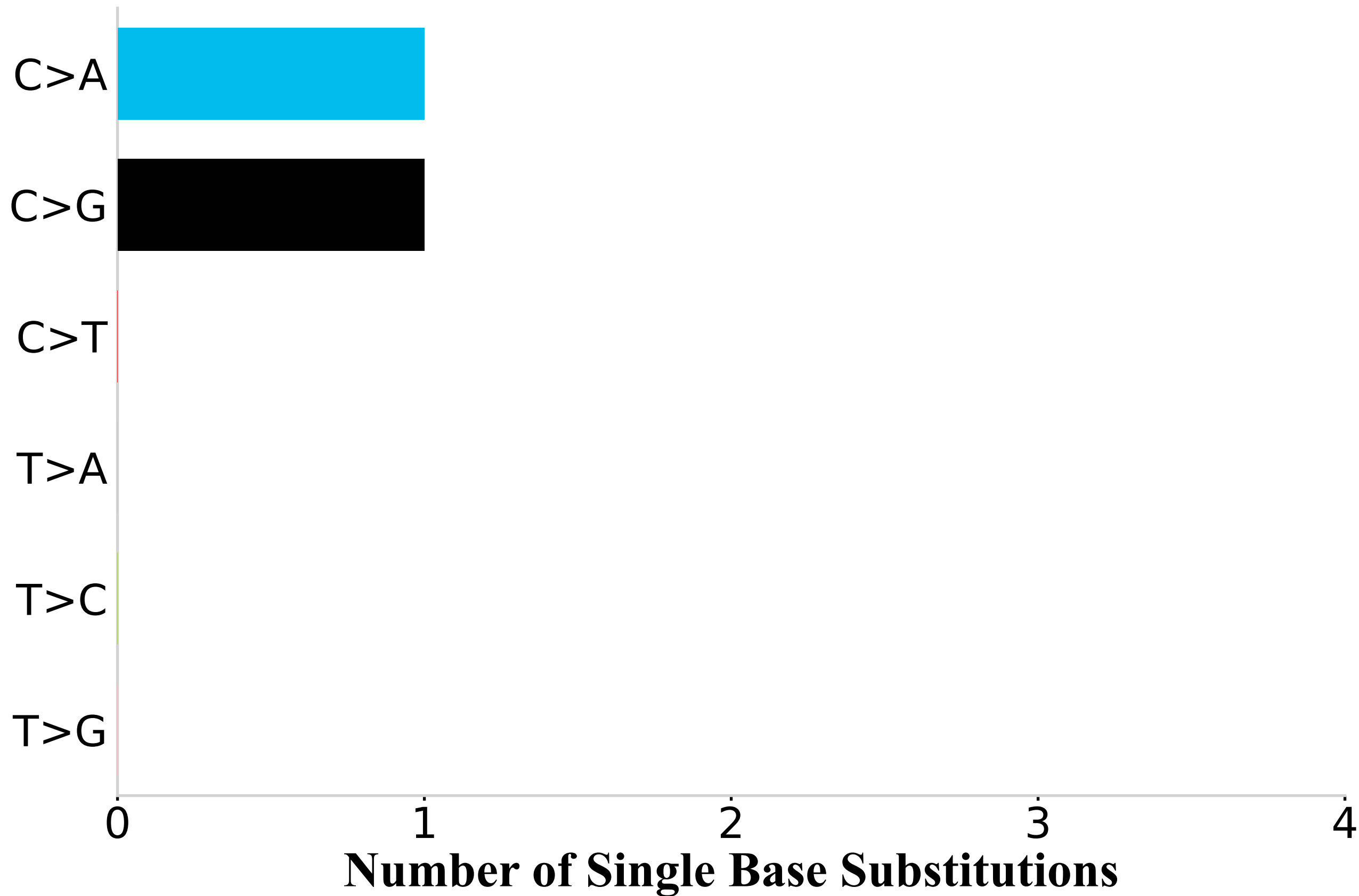
P-0017424-T01-IM6: 6 subs



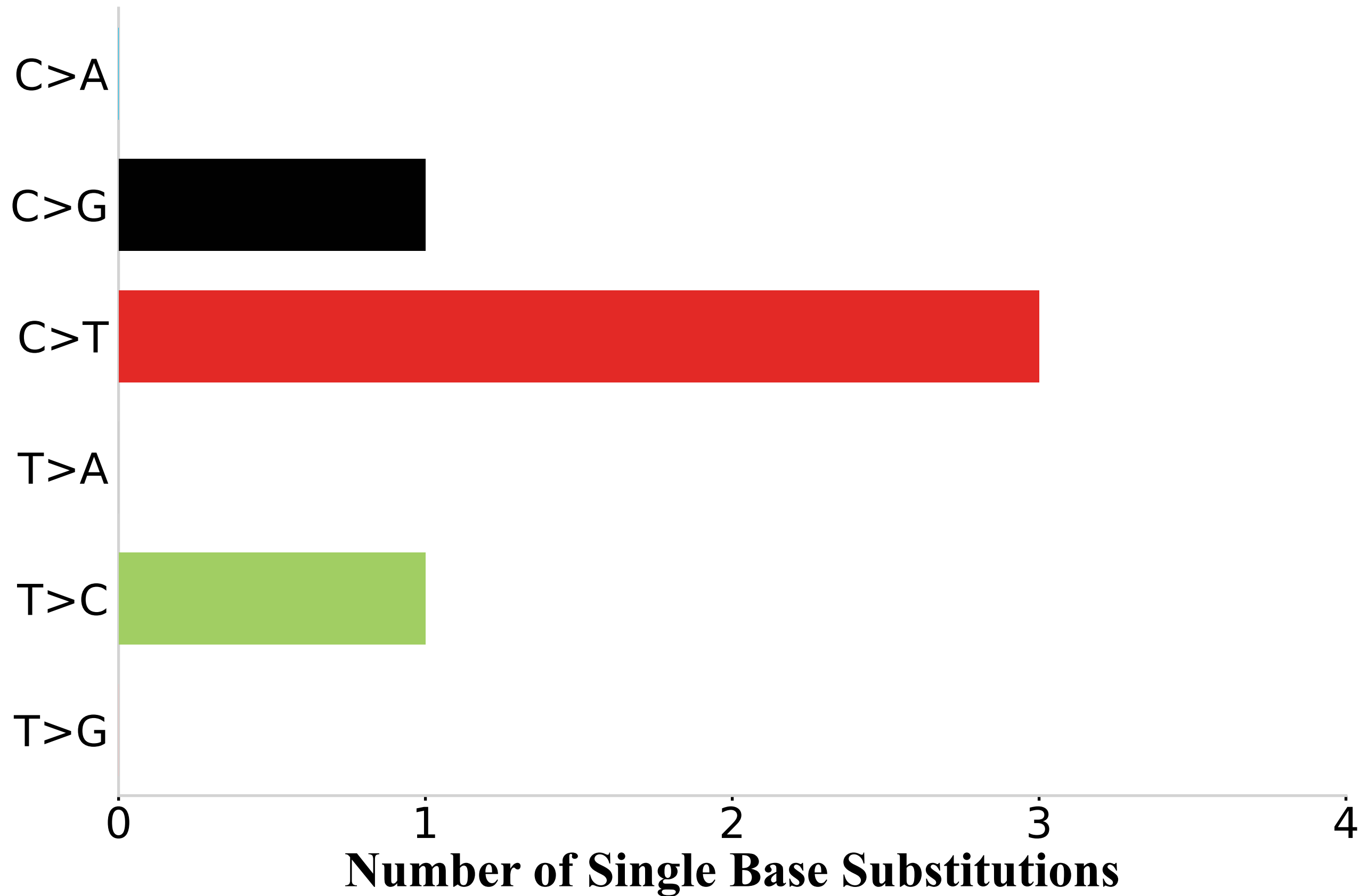
P-0017483-T01-IM6: 4 subs



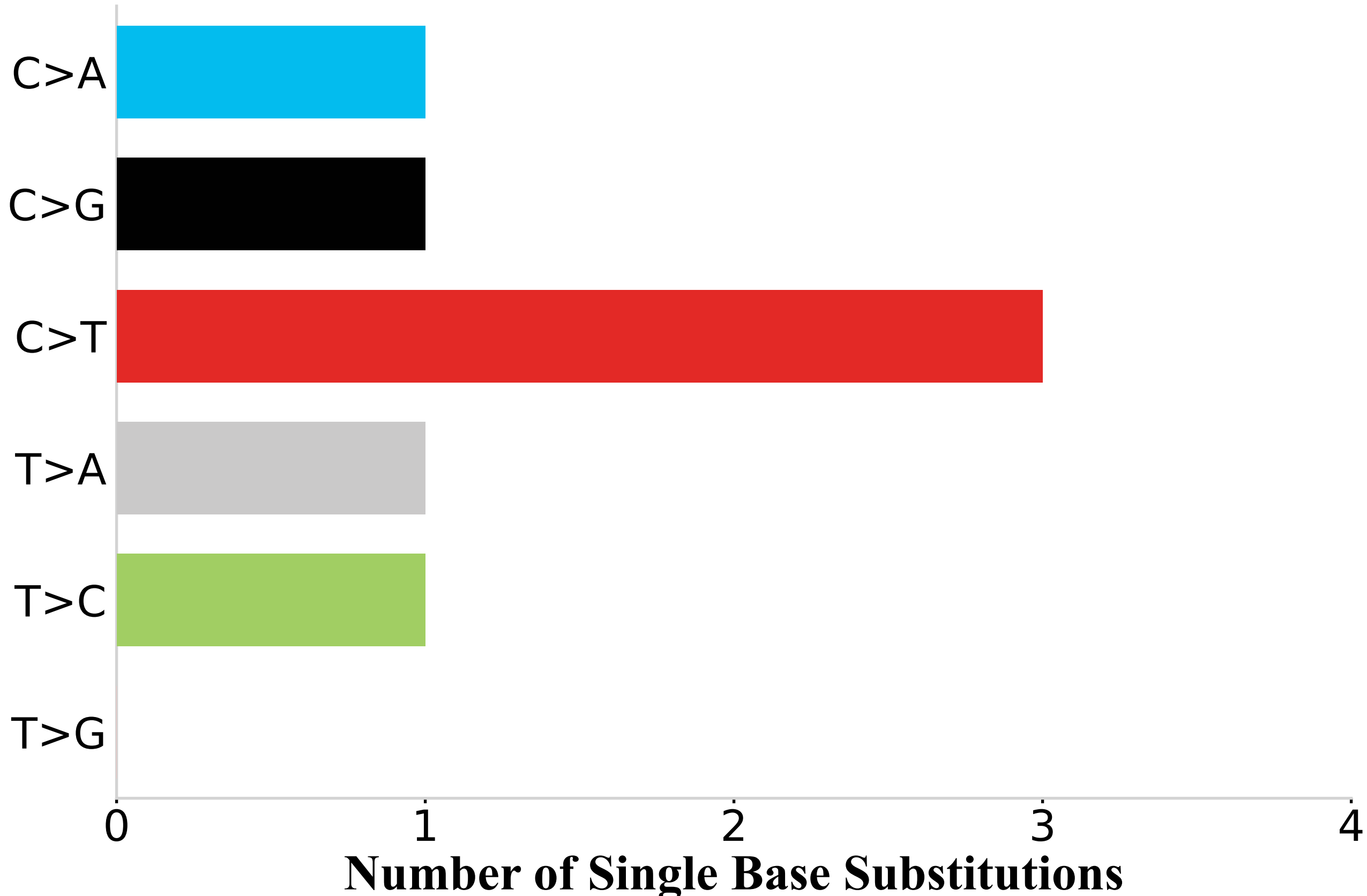
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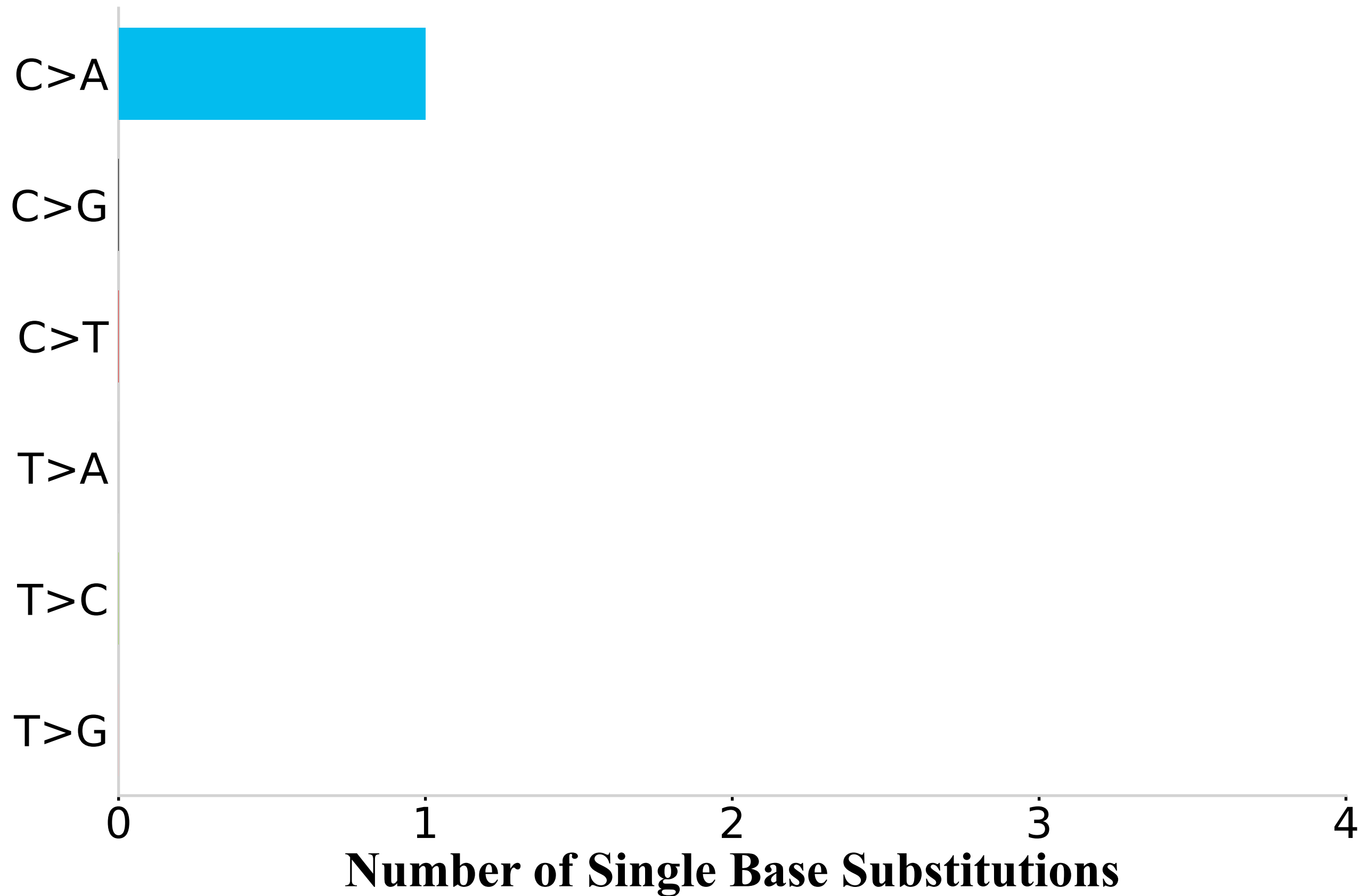
P-0018003-T01-IM6: 5 subs



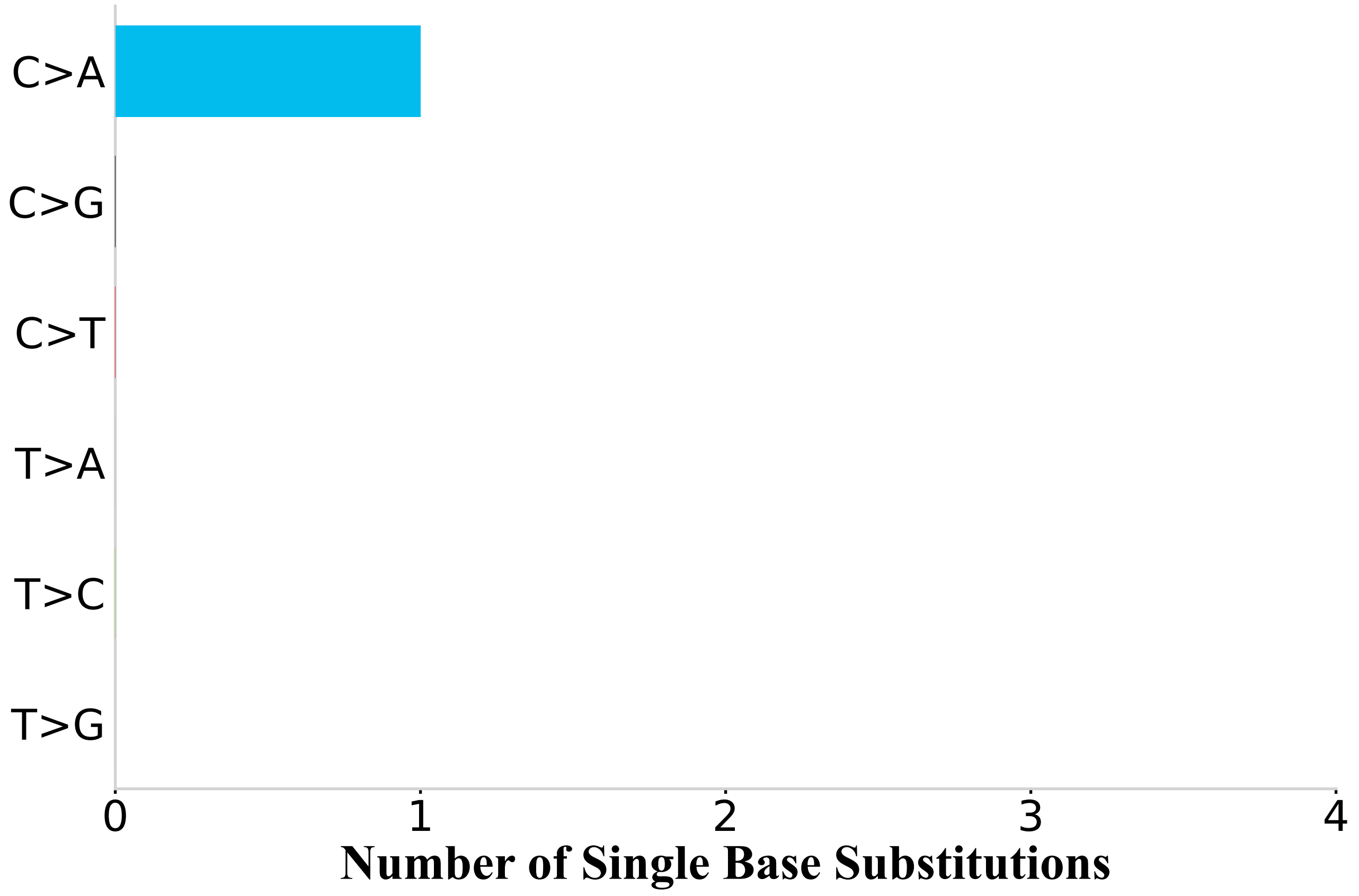
P-0018010-T01-IM6: 7 subs



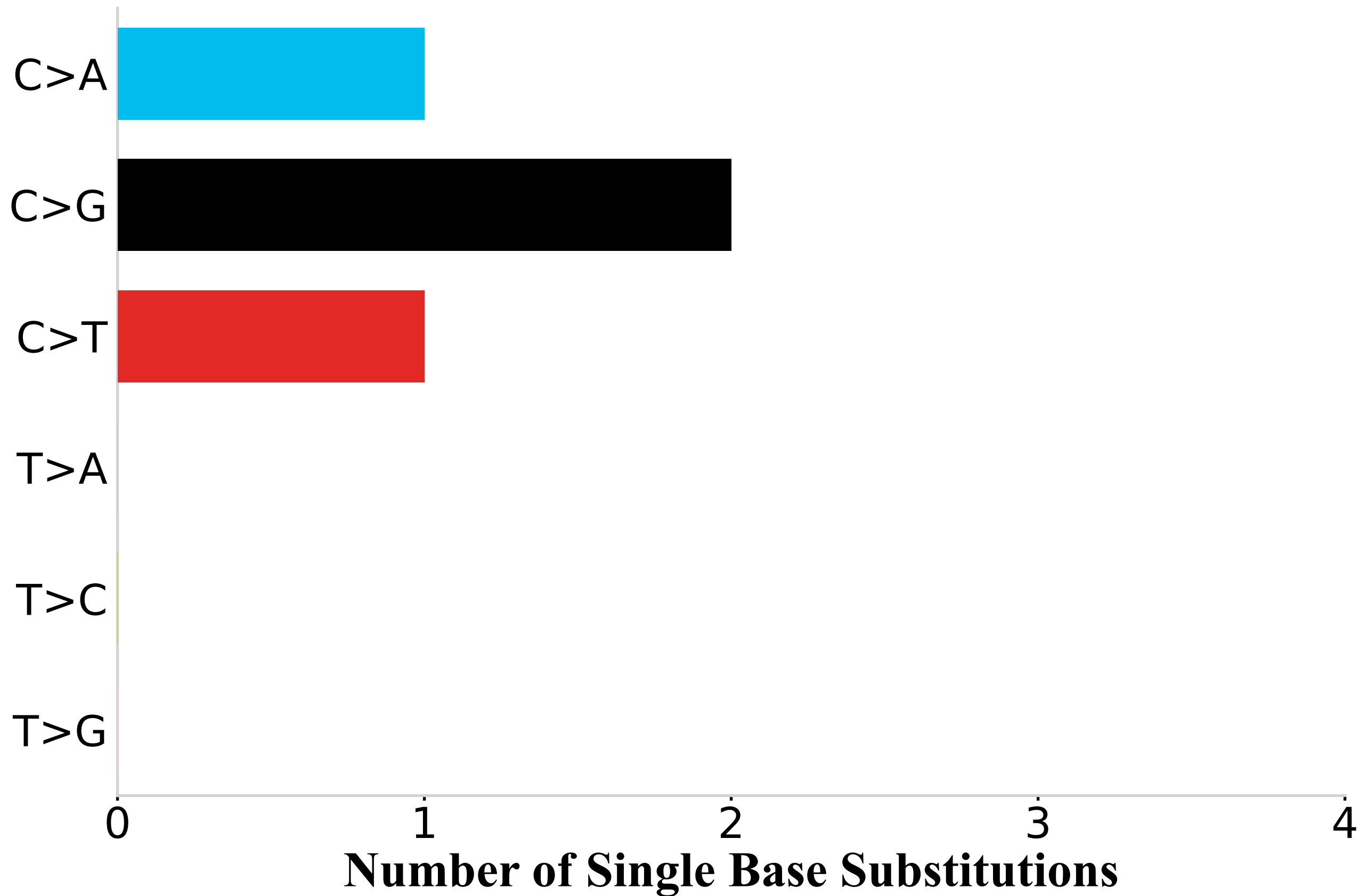
P-0018266-T01-IM6: 1 subs



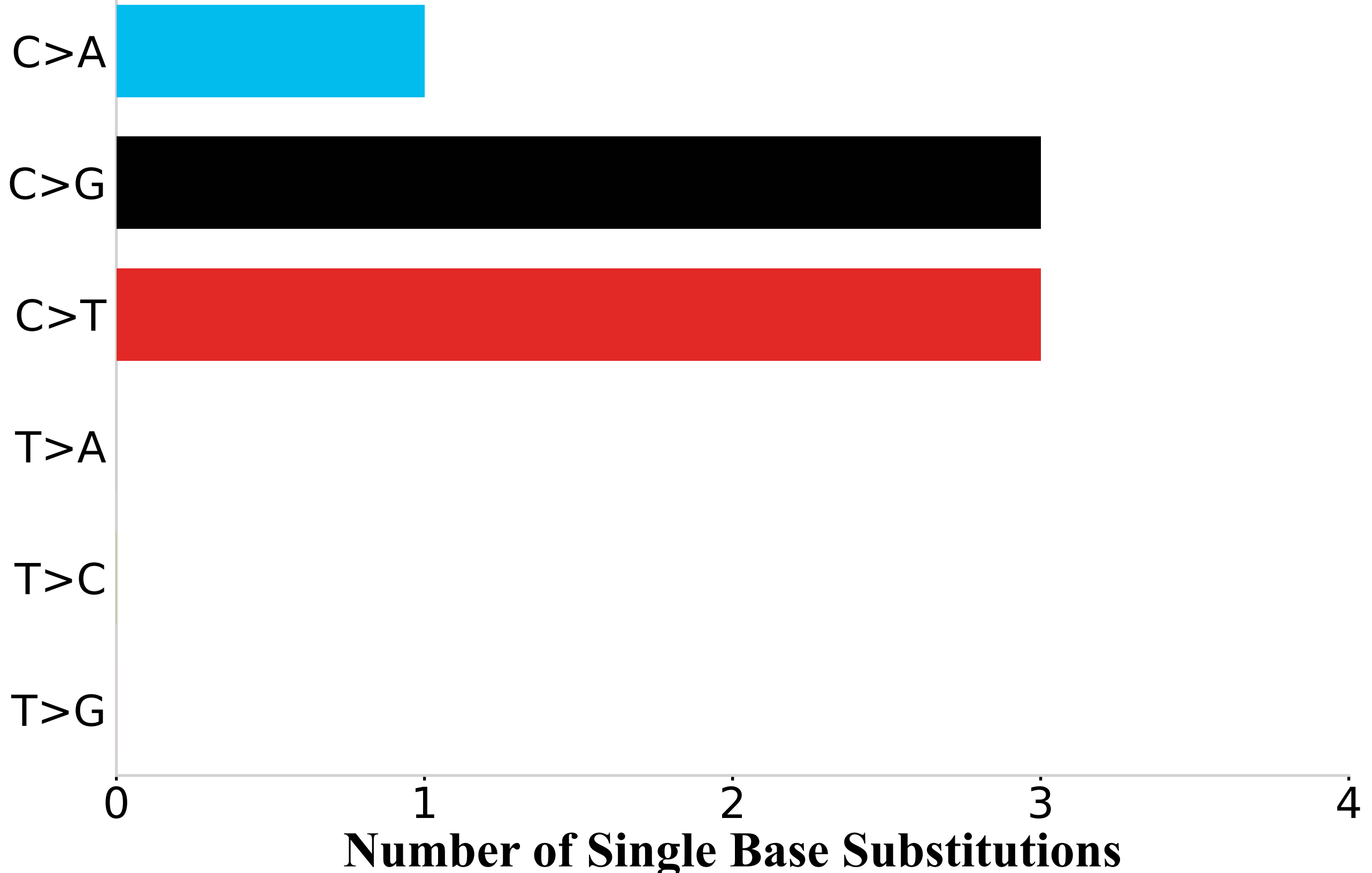
P-0018311-T01-IM6: 1 subs



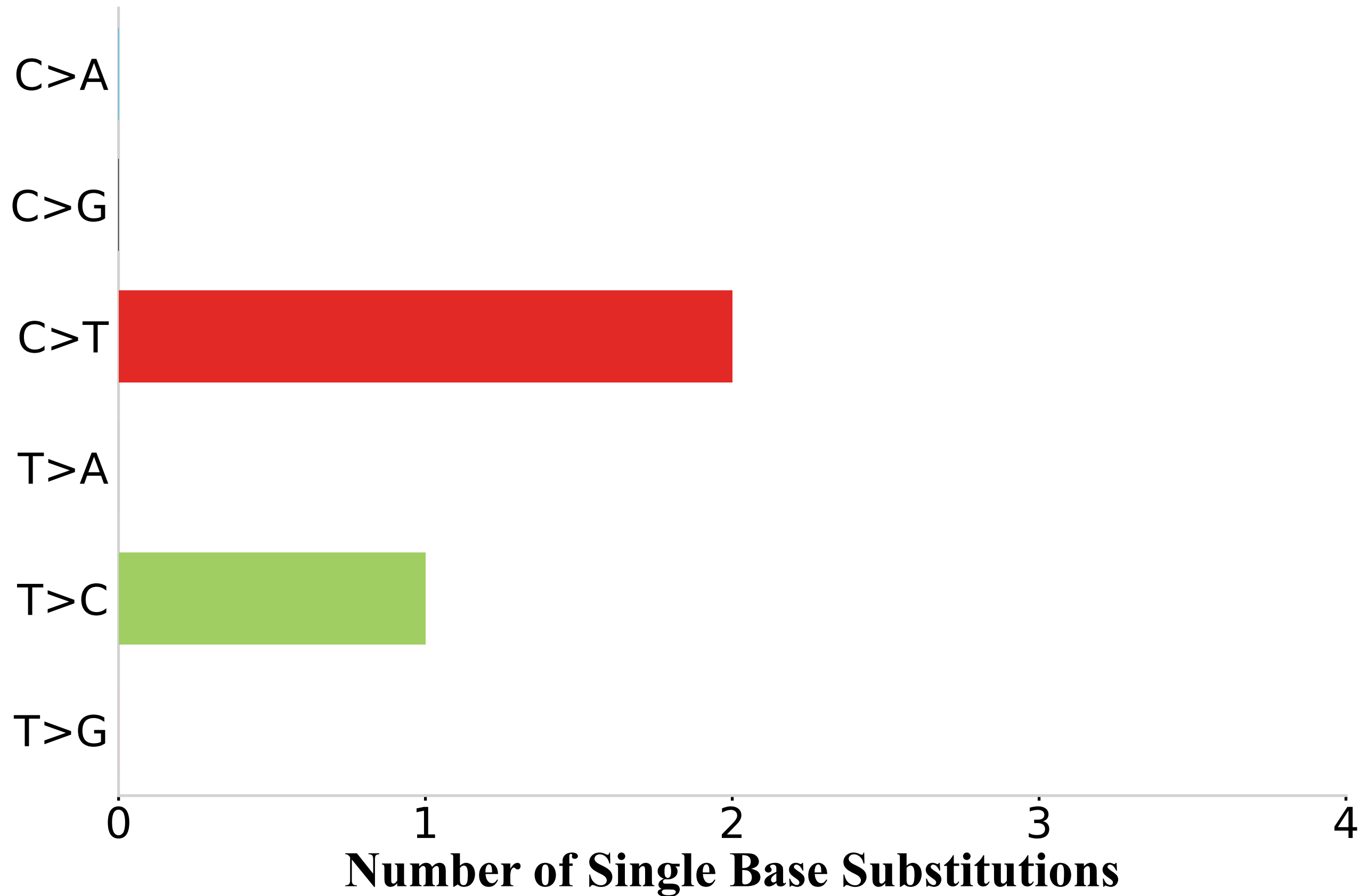
P-0019304-T01-IM6: 4 subs



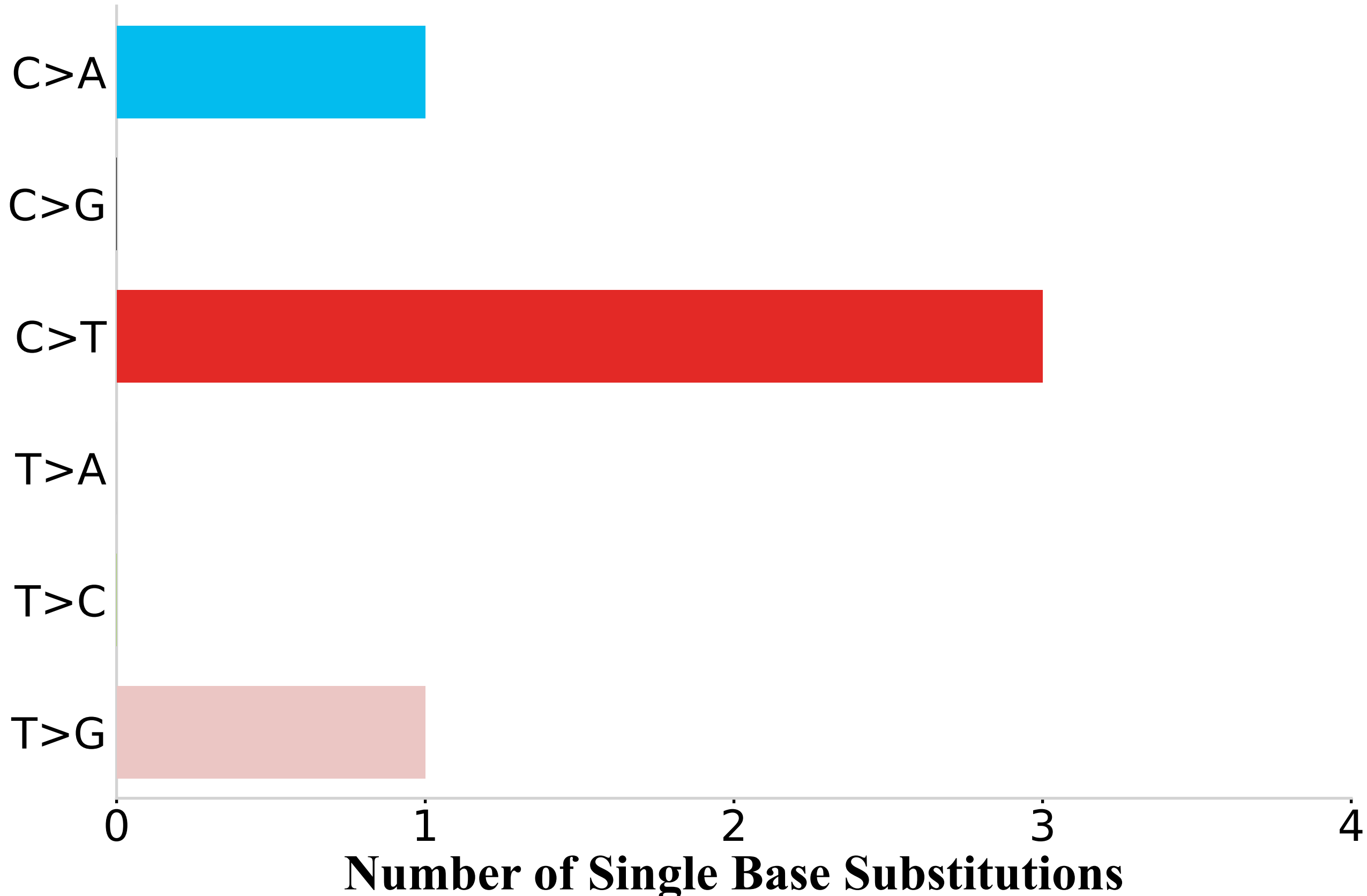
P-0019471-T01-IM6: 7 subs



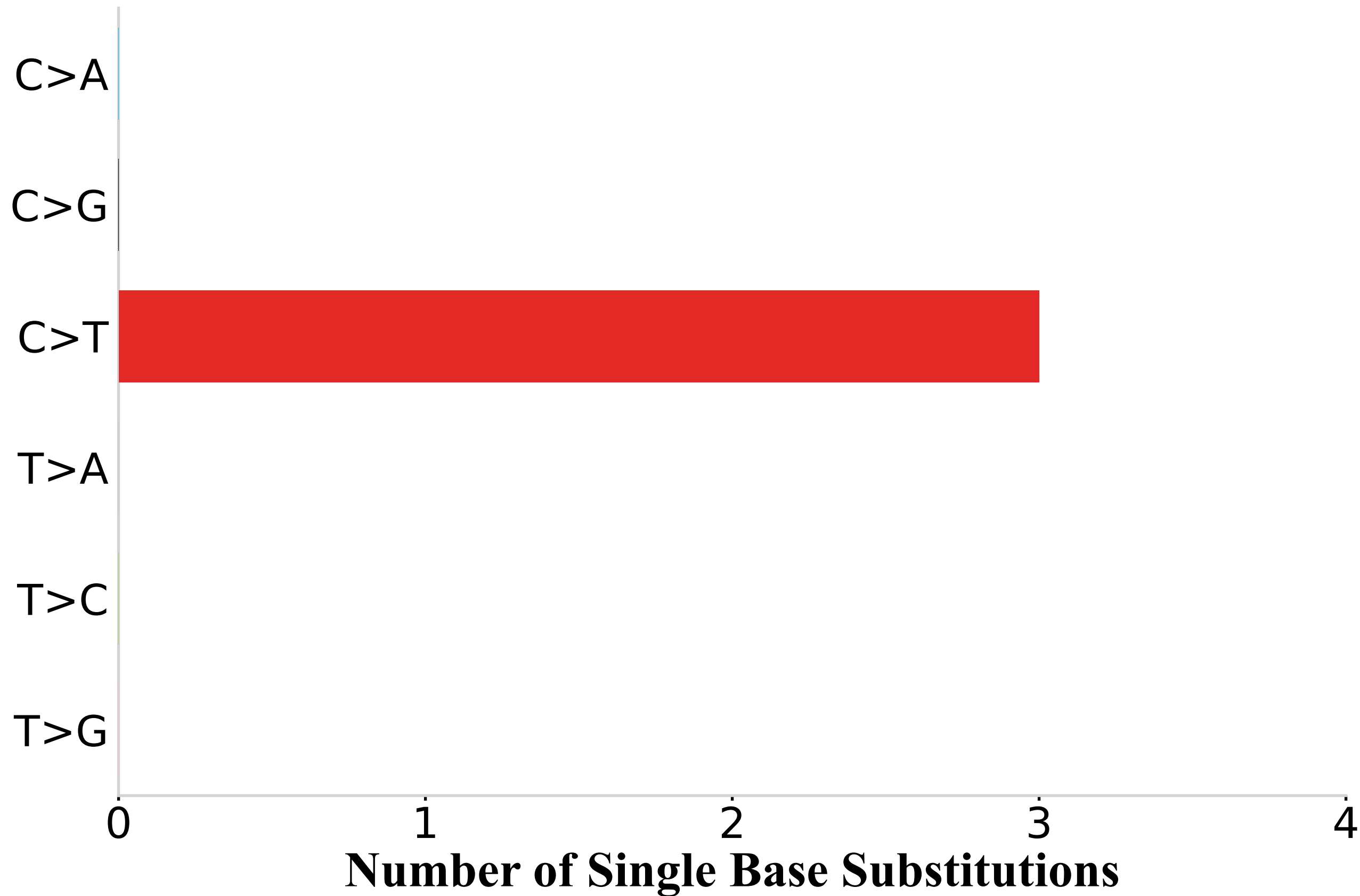
P-0019620-T01-IM6: 3 subs



P-0019659-T01-IM6: 5 subs



P-0019924-T01-IM6: 3 subs



P-0020314-T01-IM6: 0 subs

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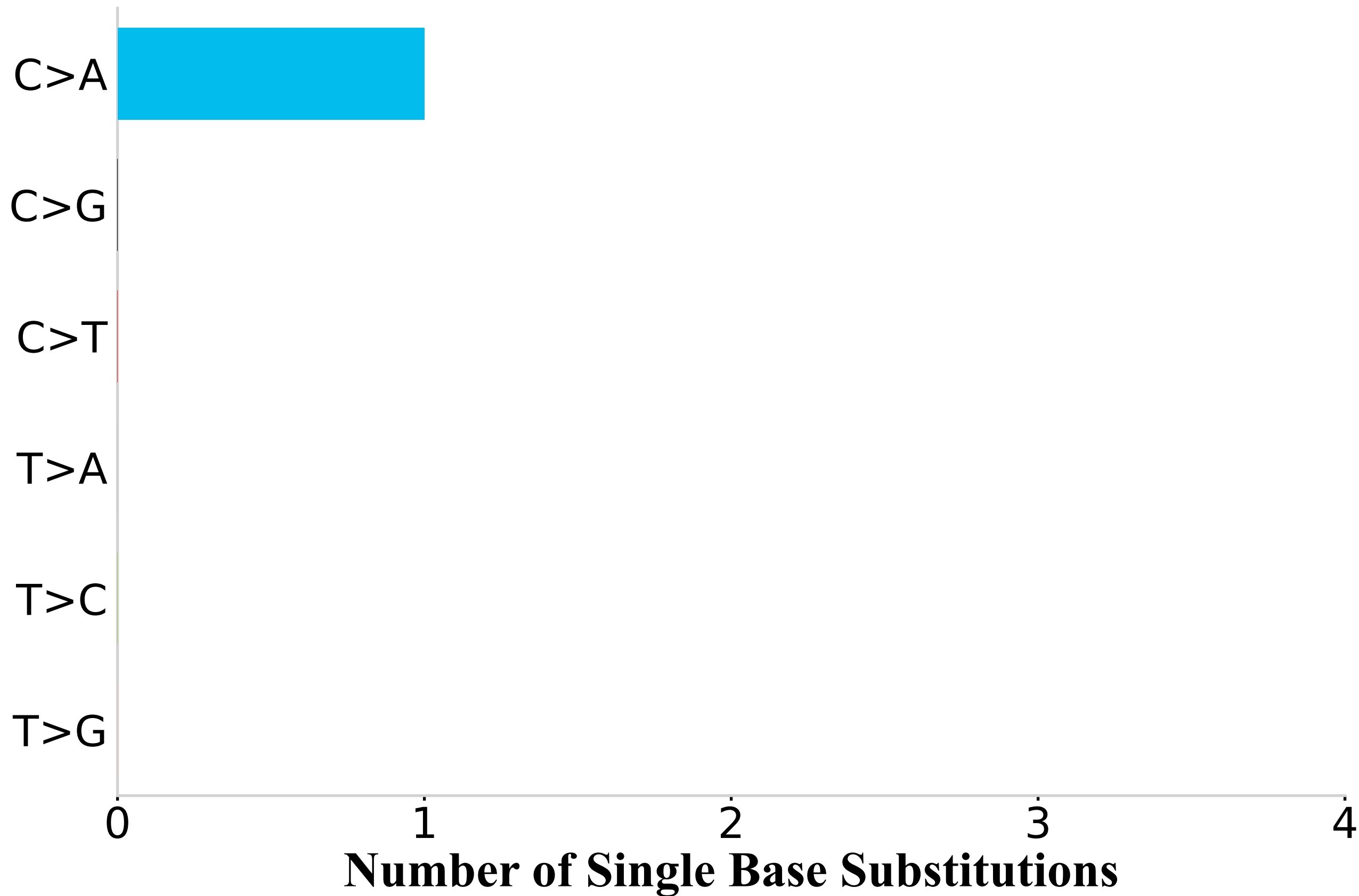
Number of Single Base Substitutions



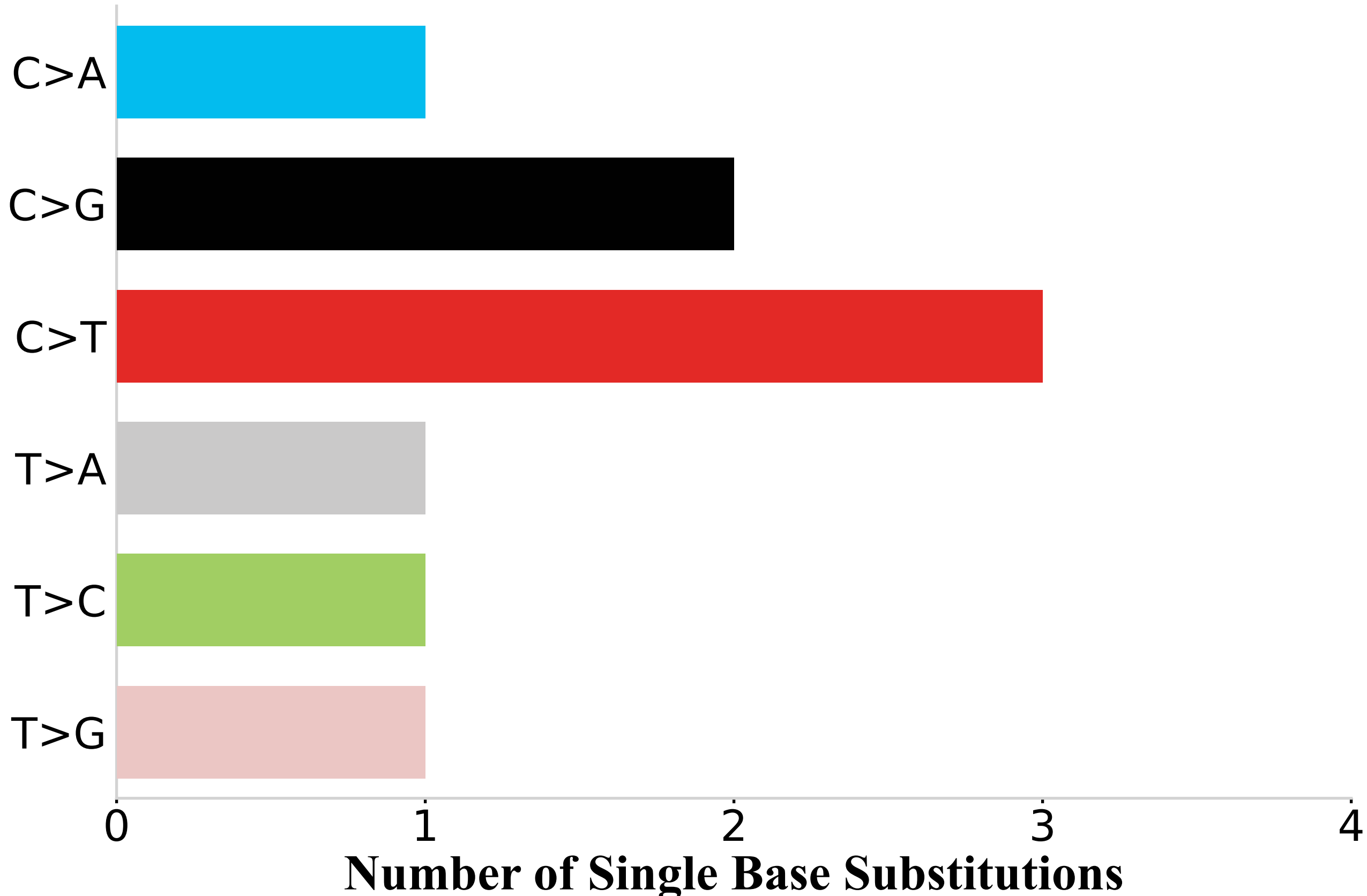
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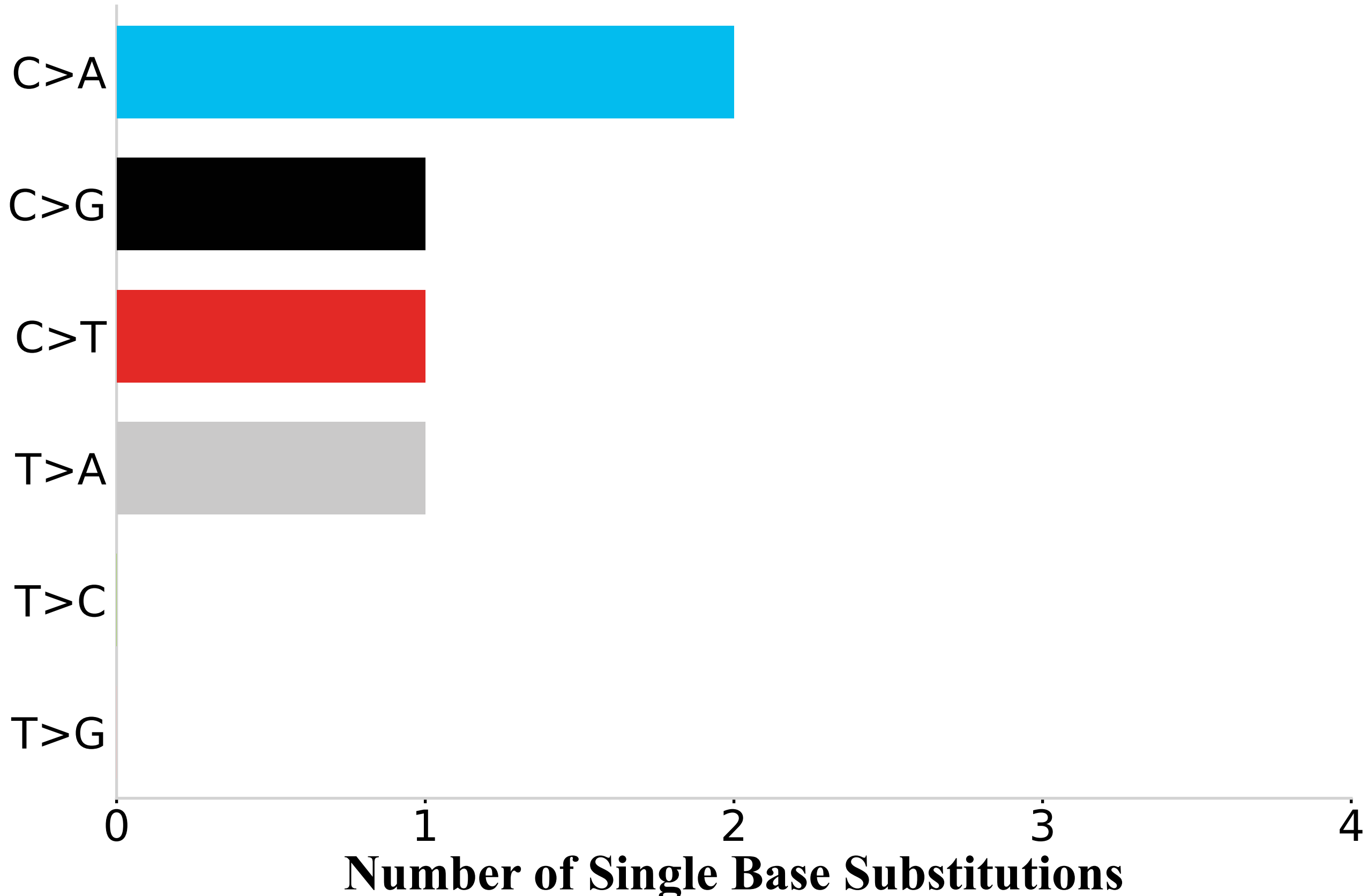
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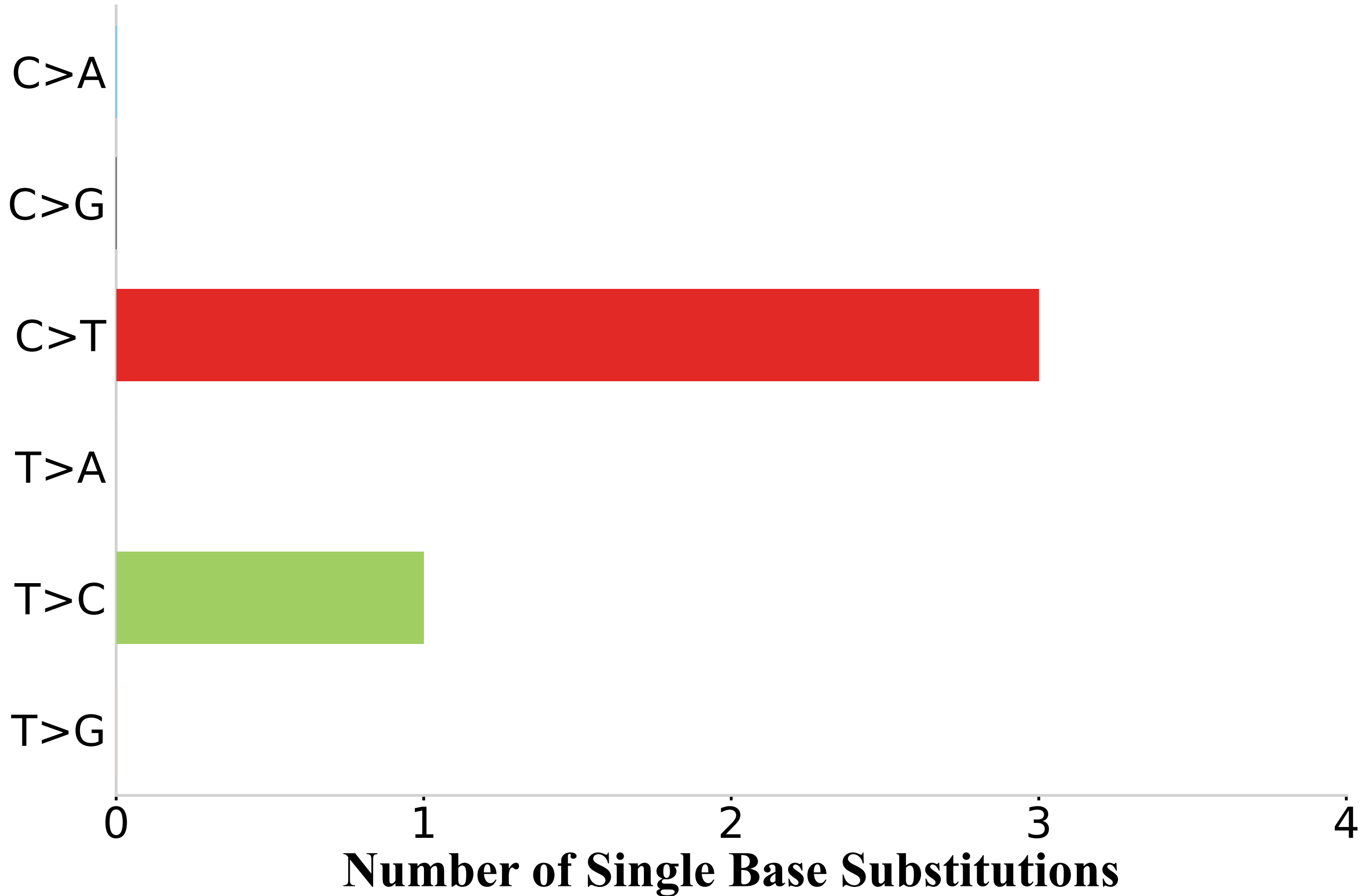
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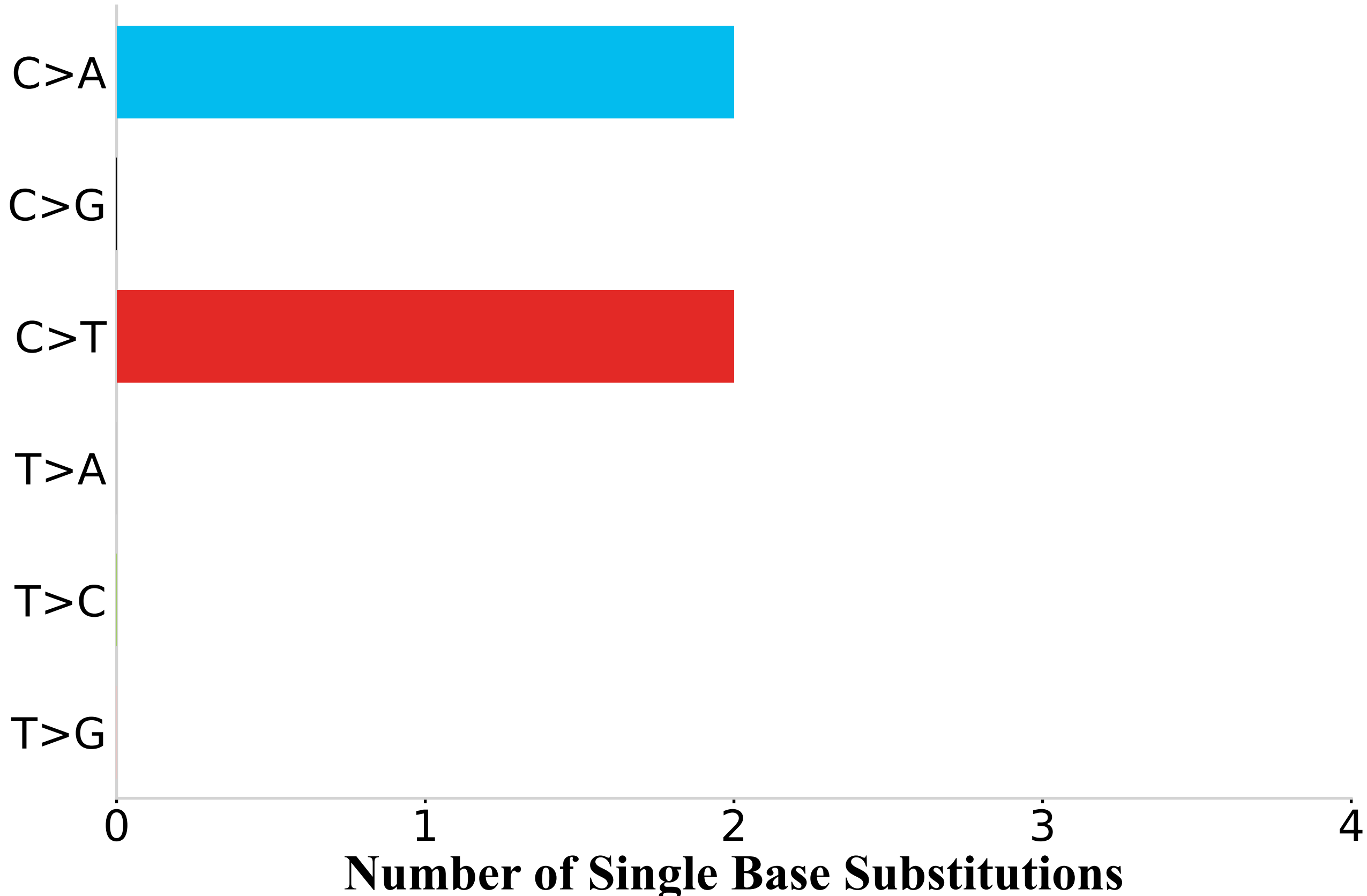
P-0020829-T01-IM6: 5 subs



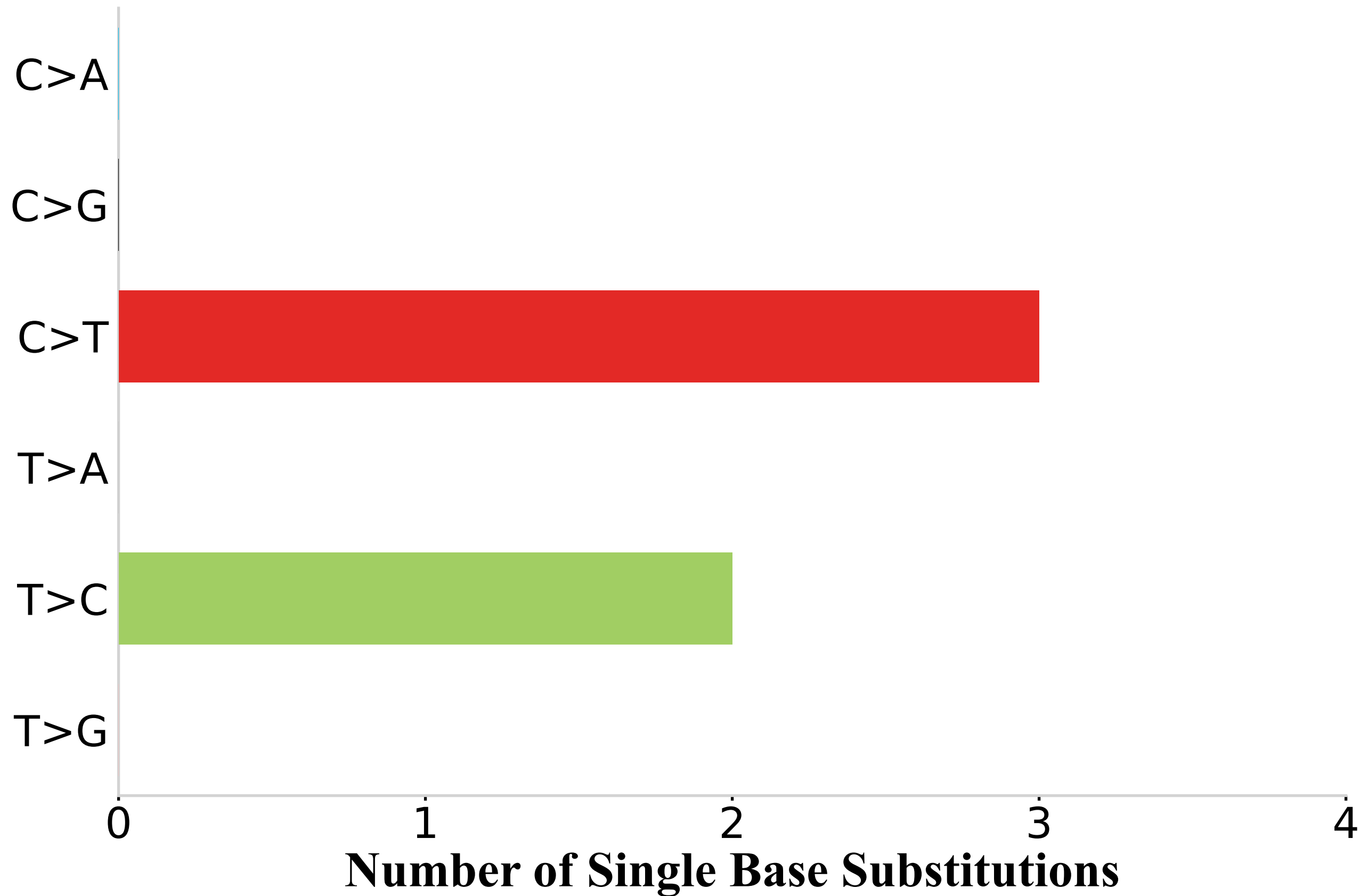
P-0020839-T01-IM6: 4 subs



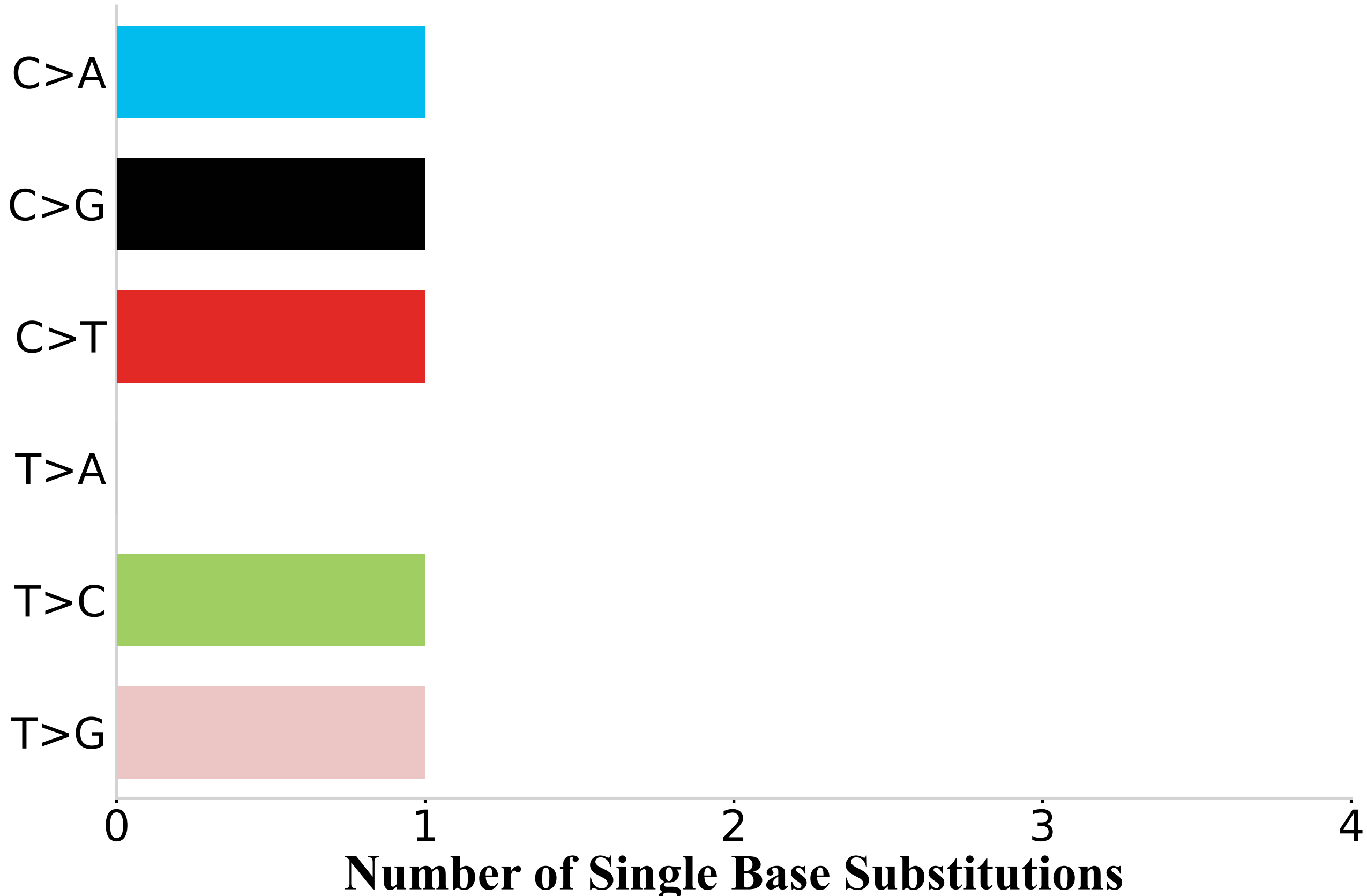
P-0020865-T01-IM6: 4 subs



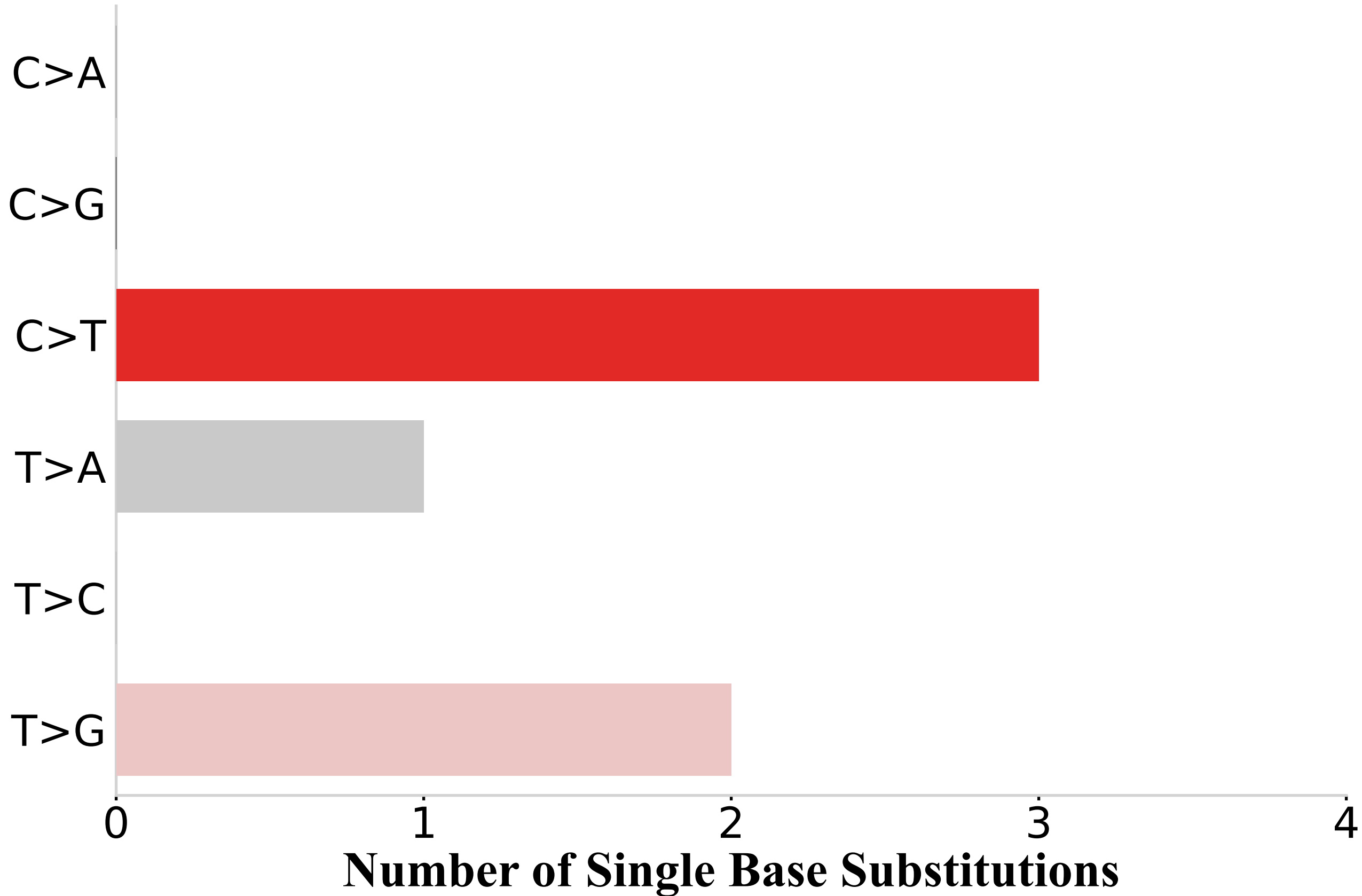
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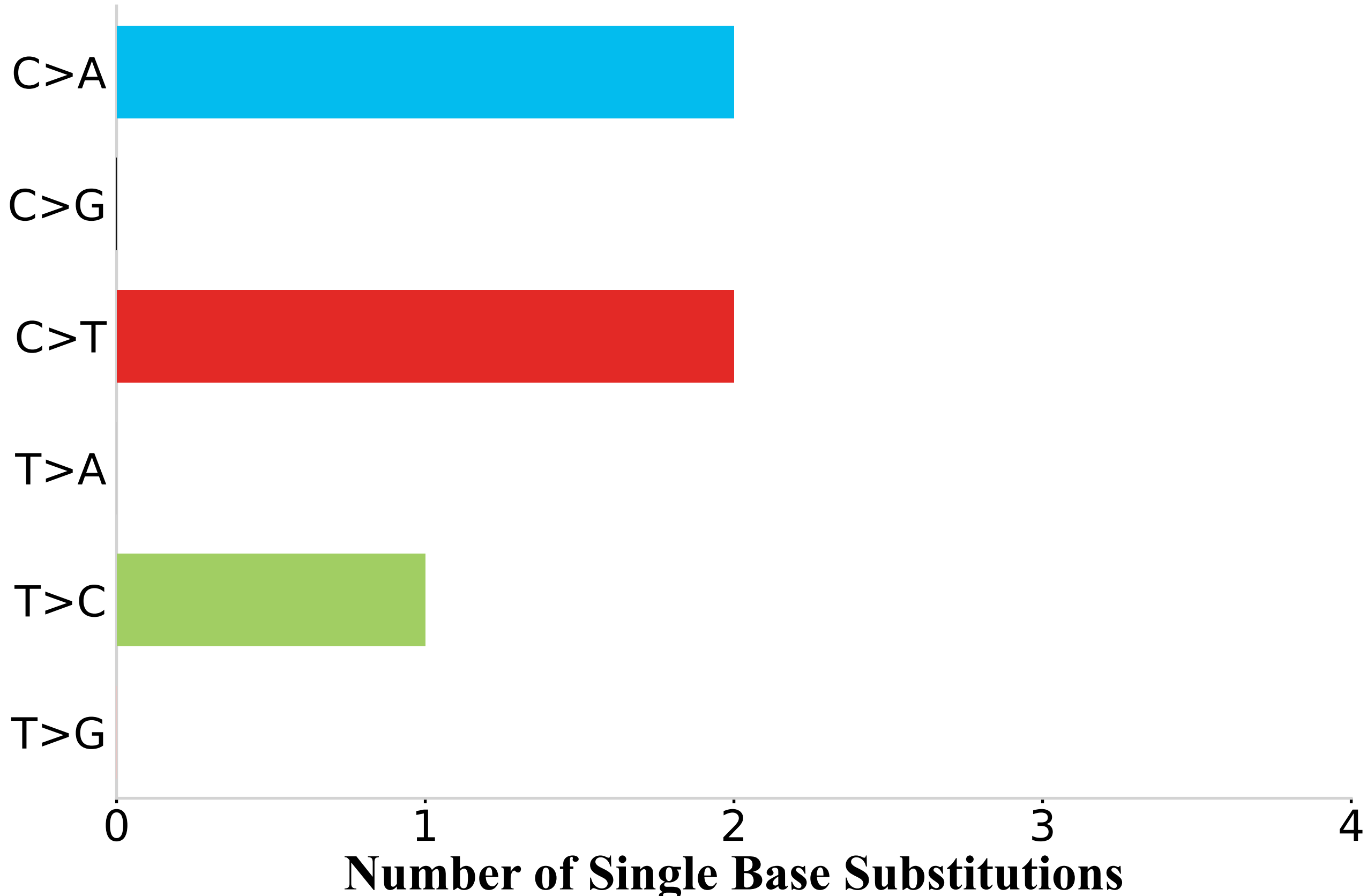
P-0021476-T01-IM6: 5 subs



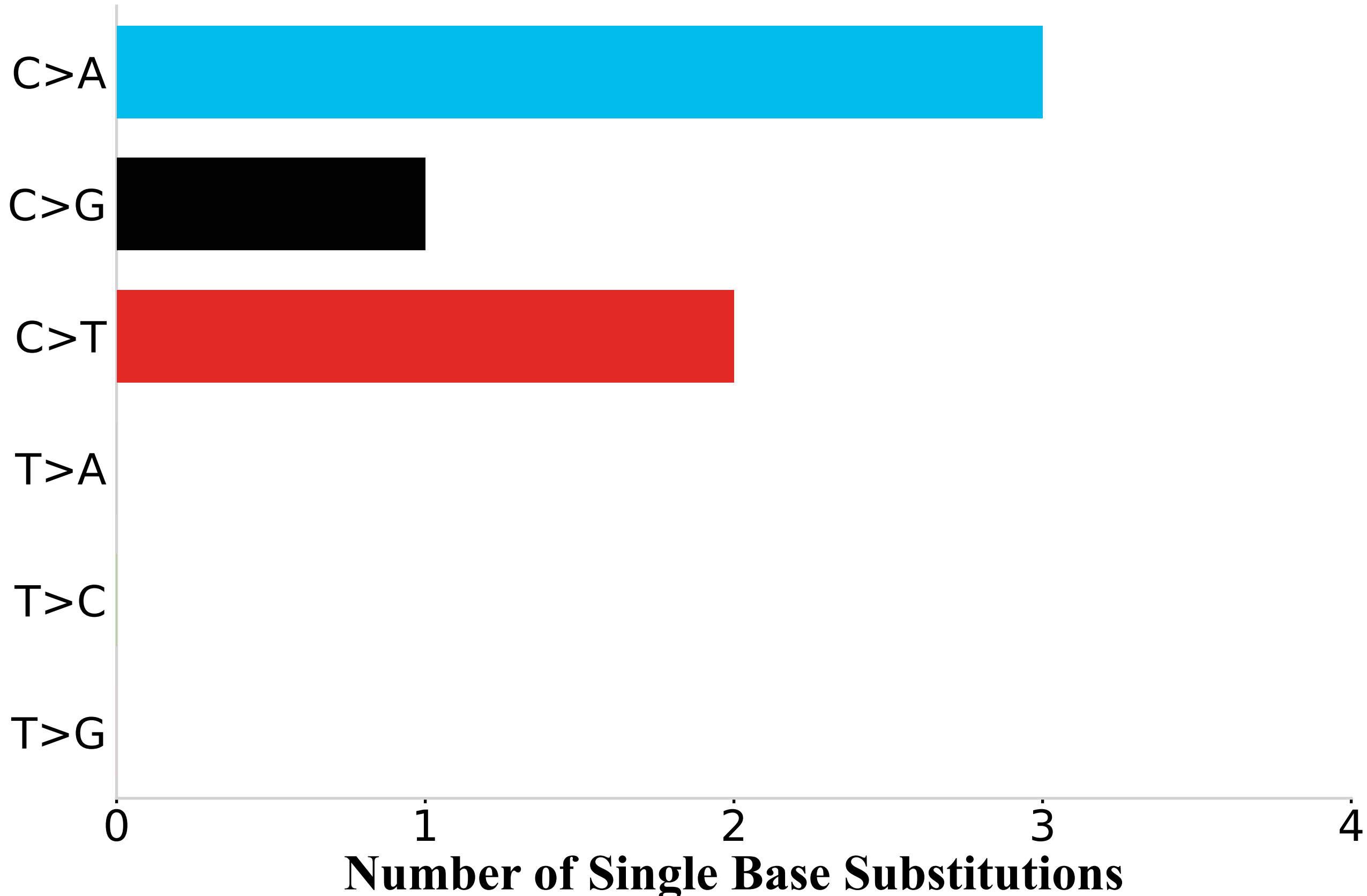
P-0021579-T01-IM6: 6 subs



P-0021652-T01-IM6: 5 subs



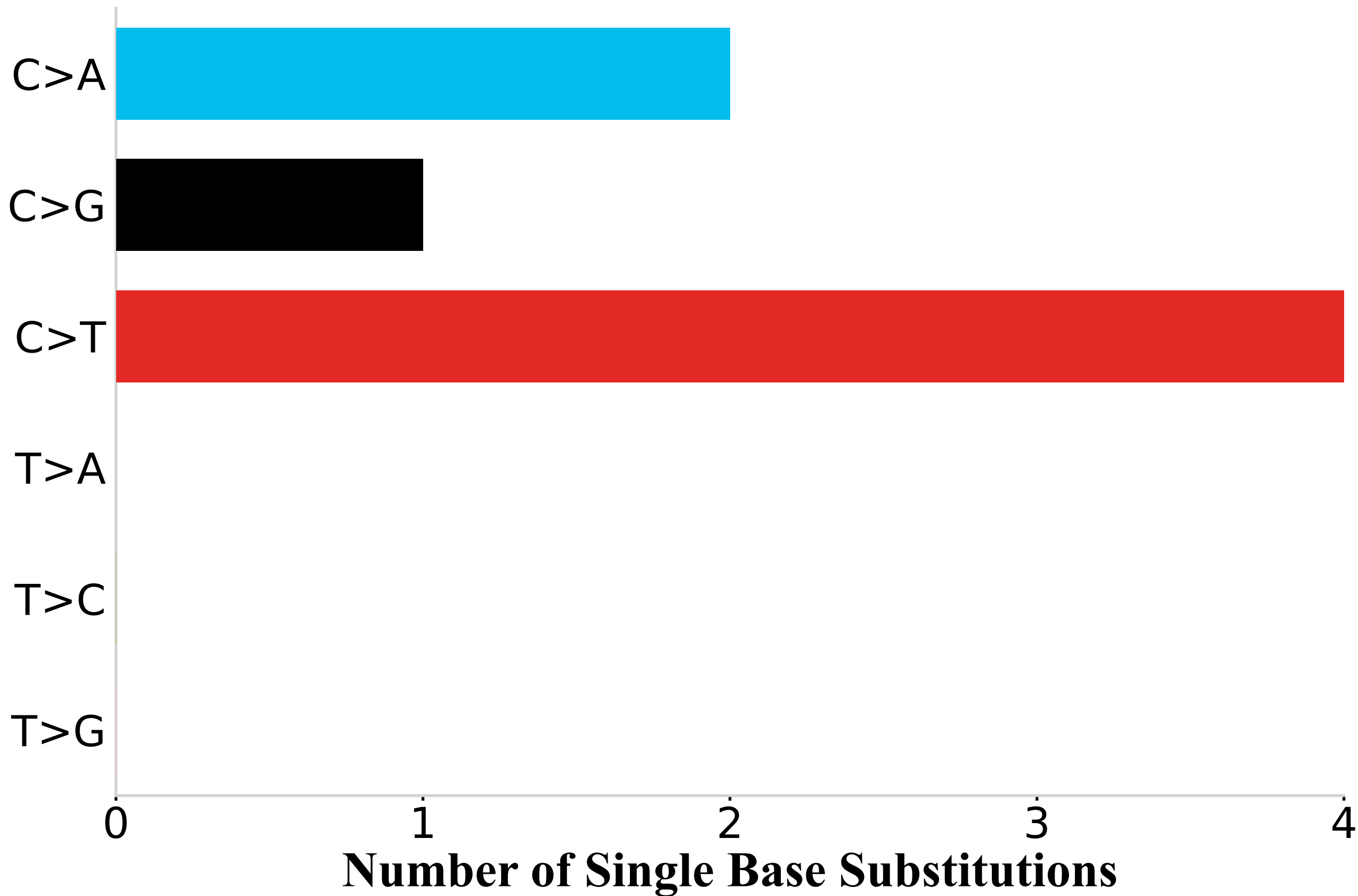
P-0021804-T01-IM6: 6 subs



P-0021947-T01-IM6: 4 subs



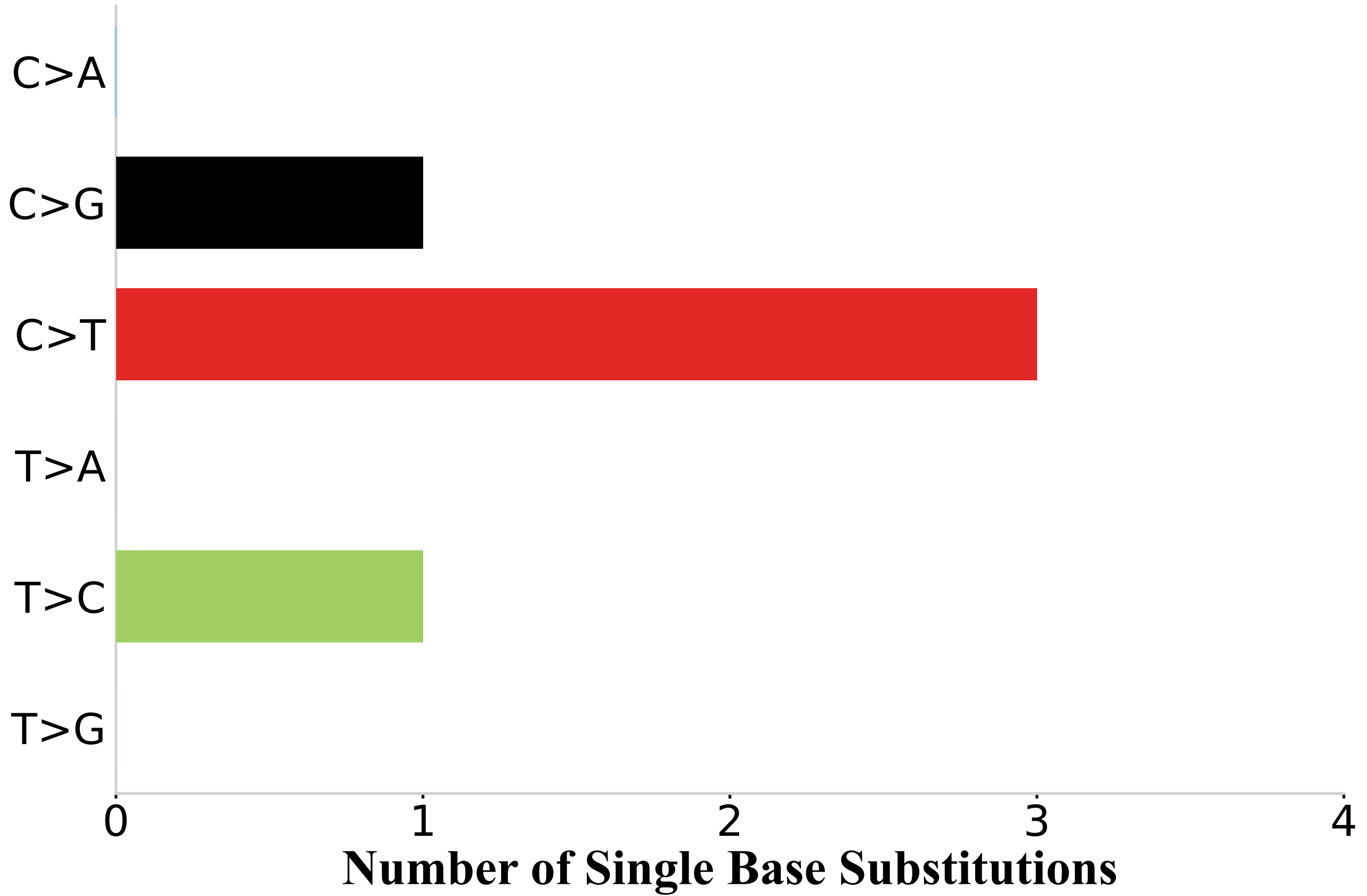
P-0022401-T01-IM6: 7 subs



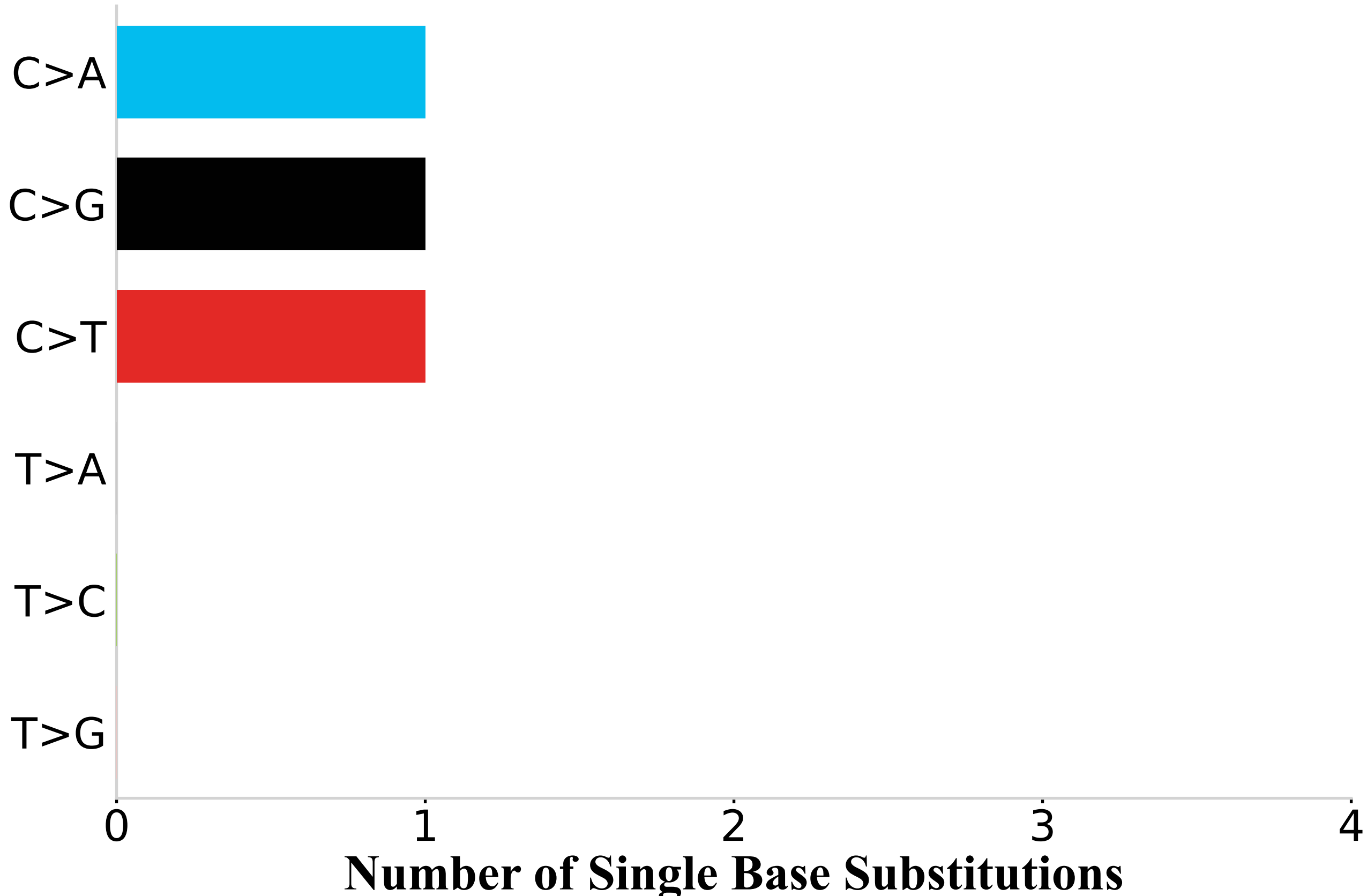
P-0022728-T02-IM6: 3 subs



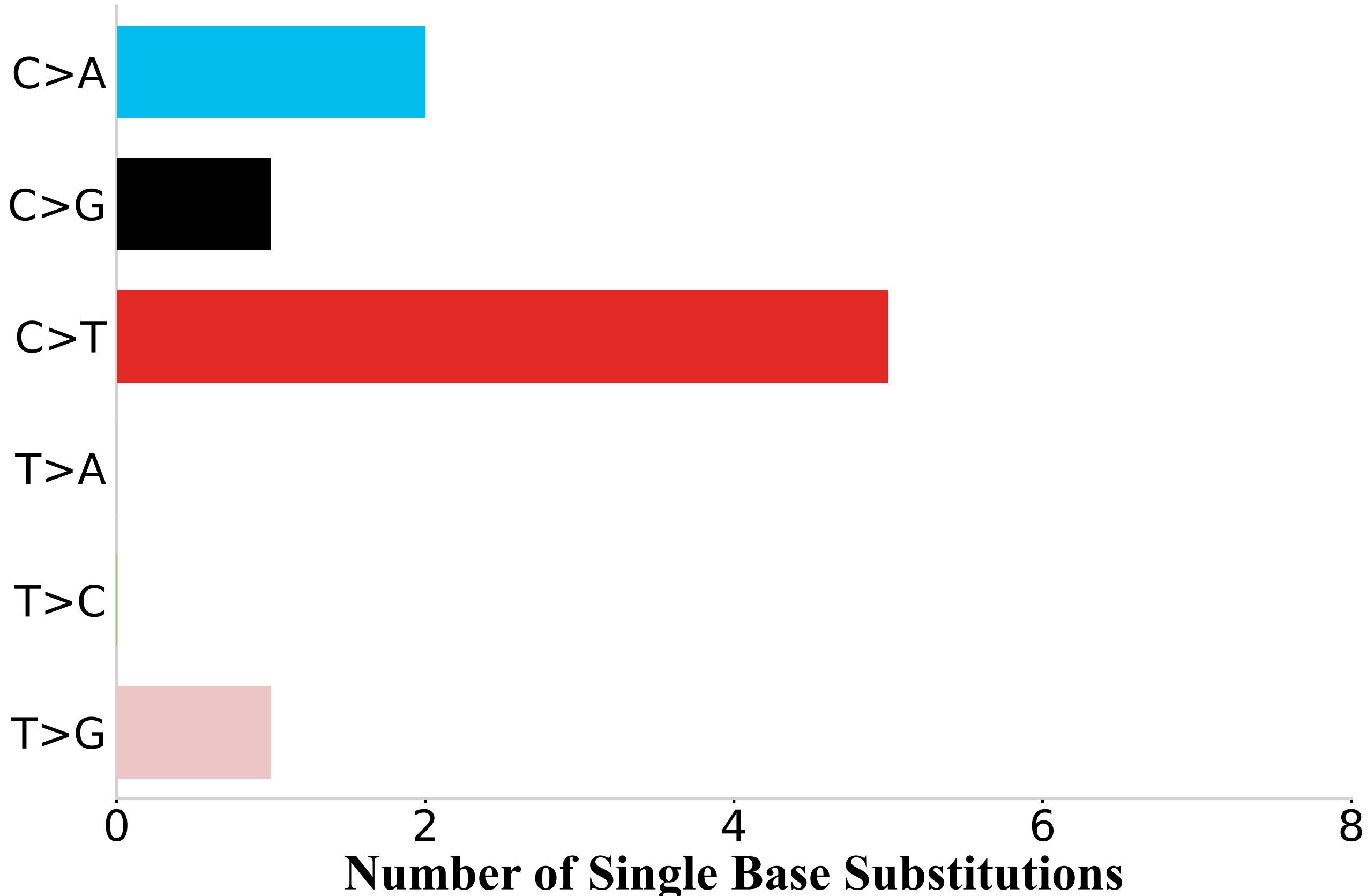
P-0022813-T01-IM6: 5 subs



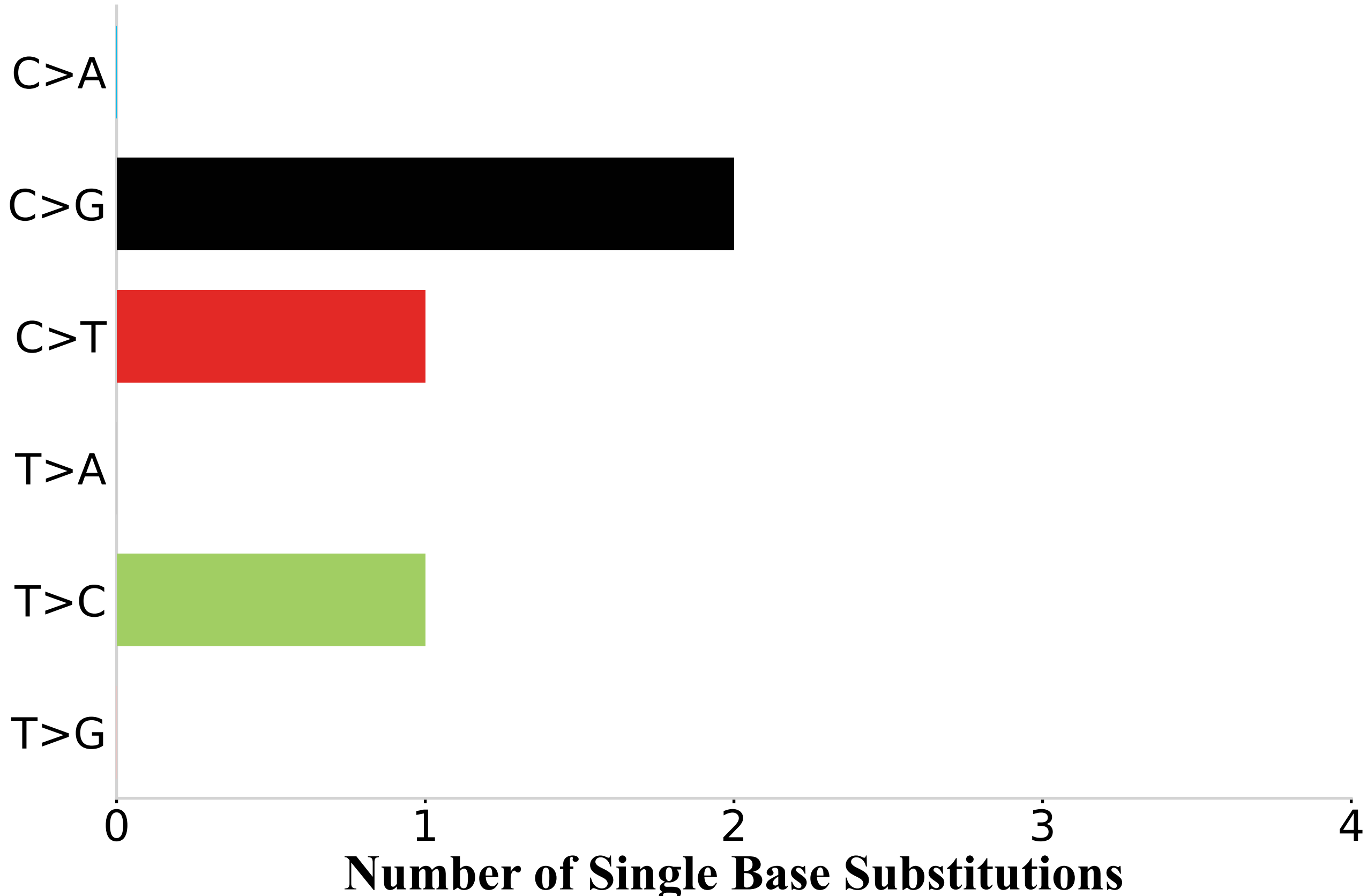
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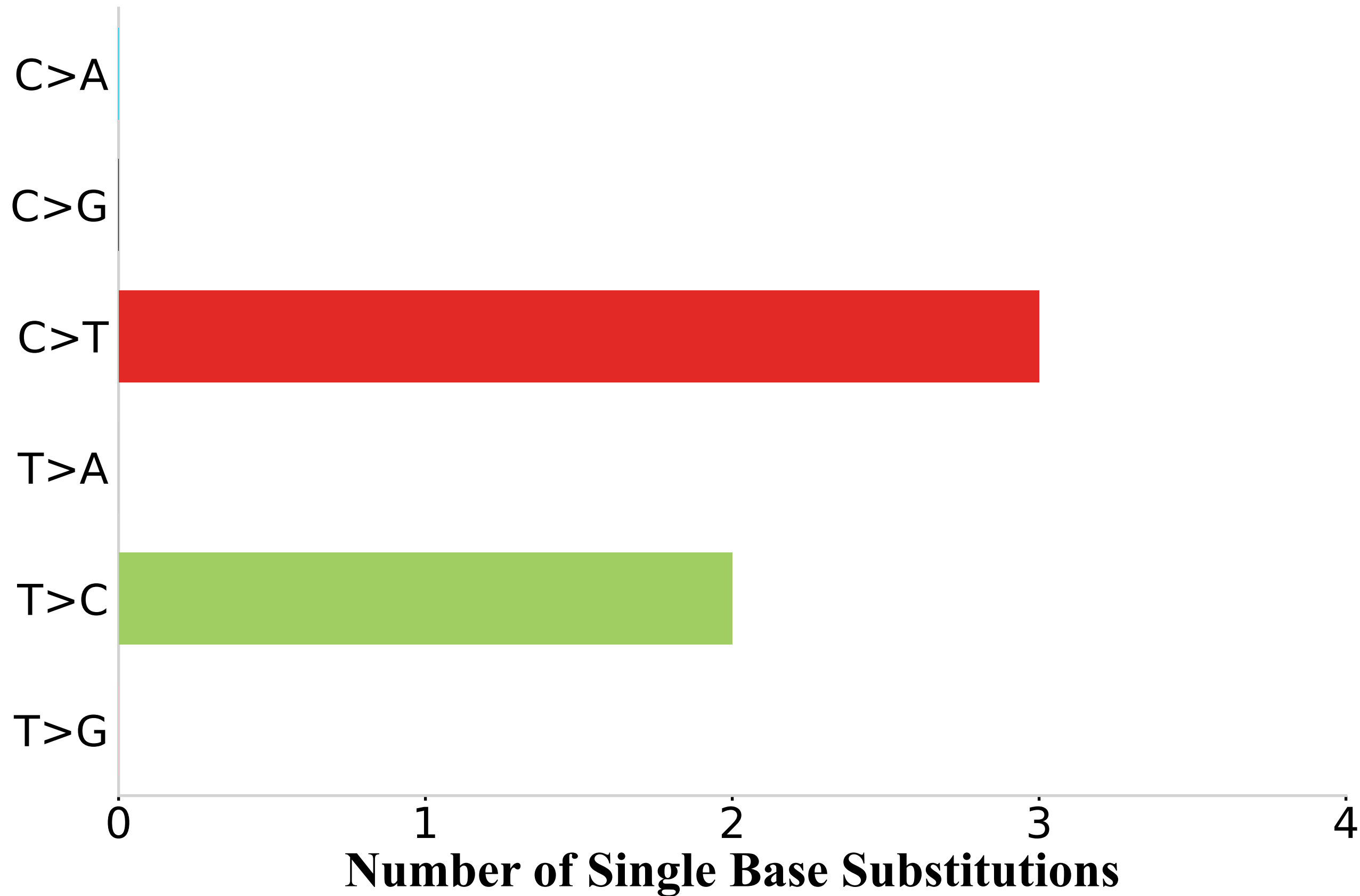
P-0023052-T01-IM6: 9 subs



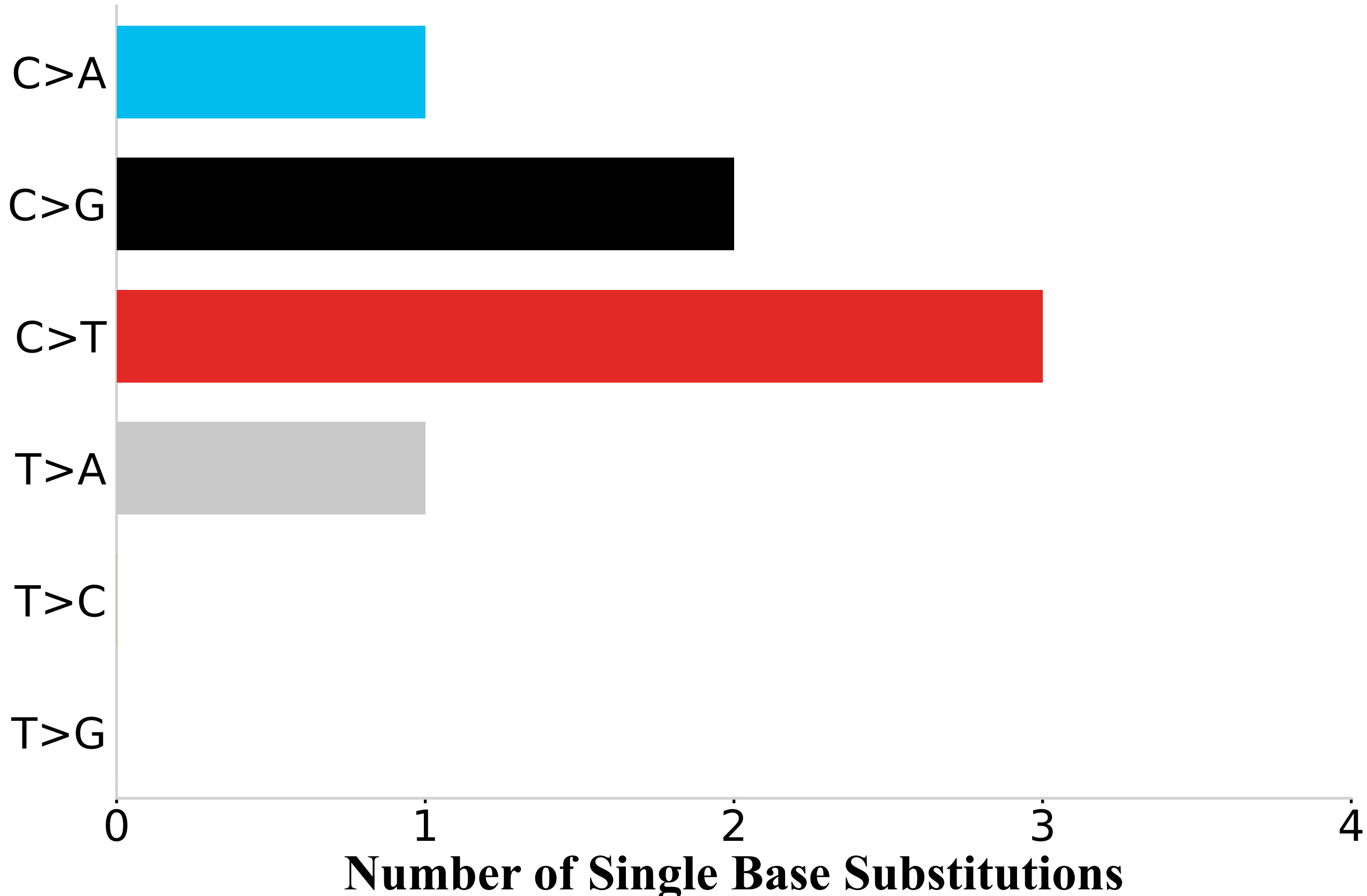
P-0023066-T01-IM6: 4 subs



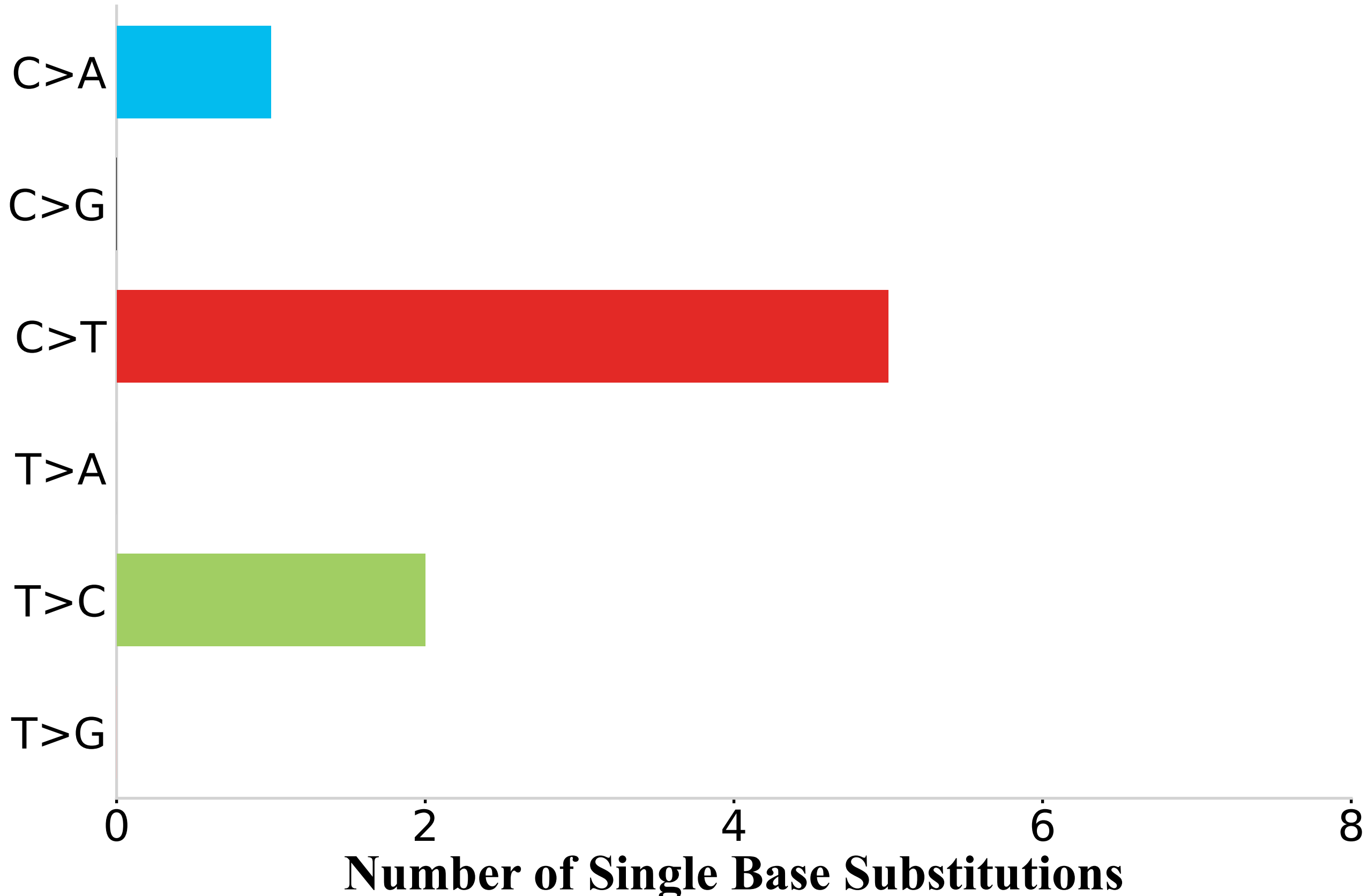
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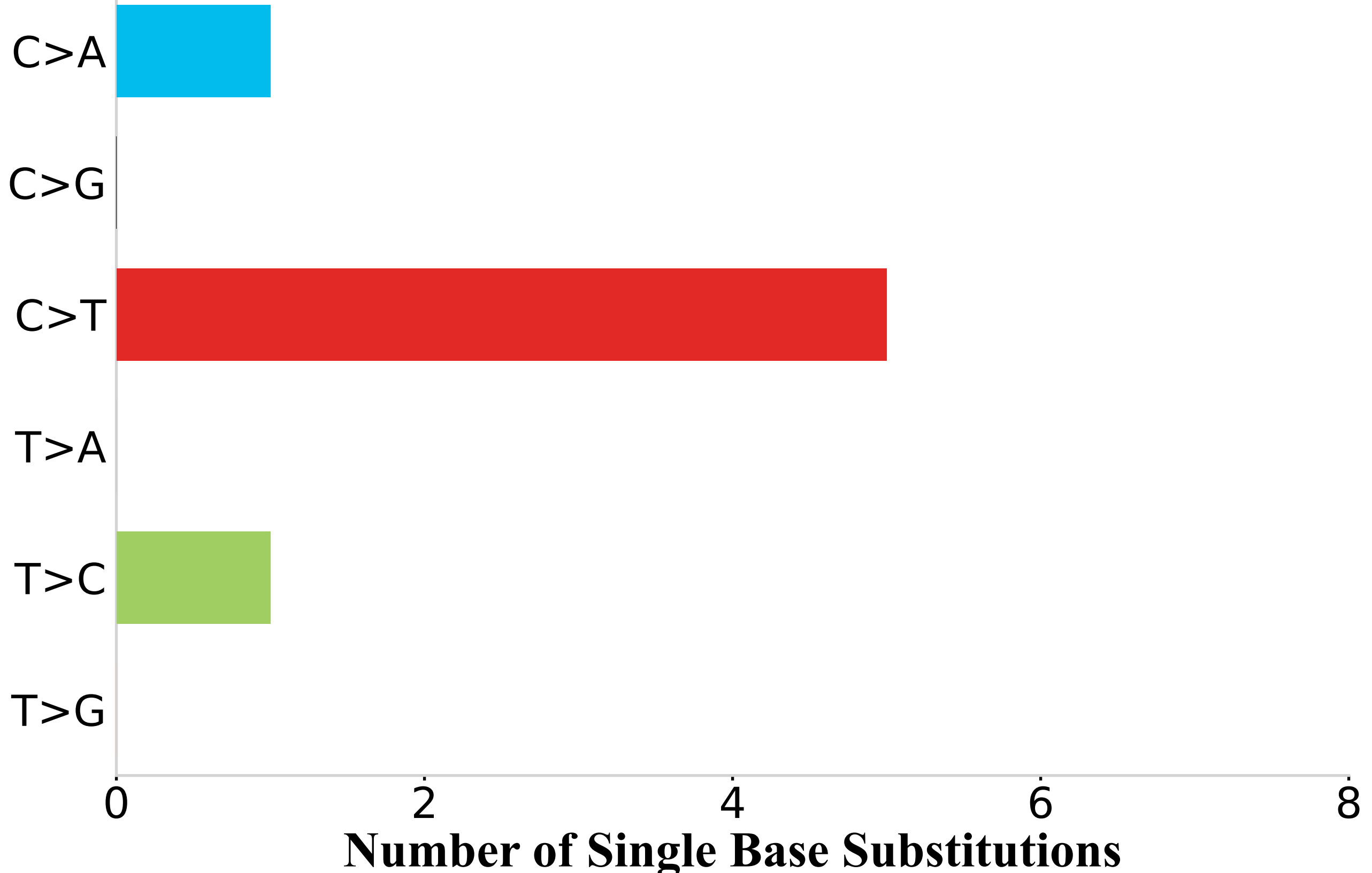
P-0023613-T01-IM6: 7 subs



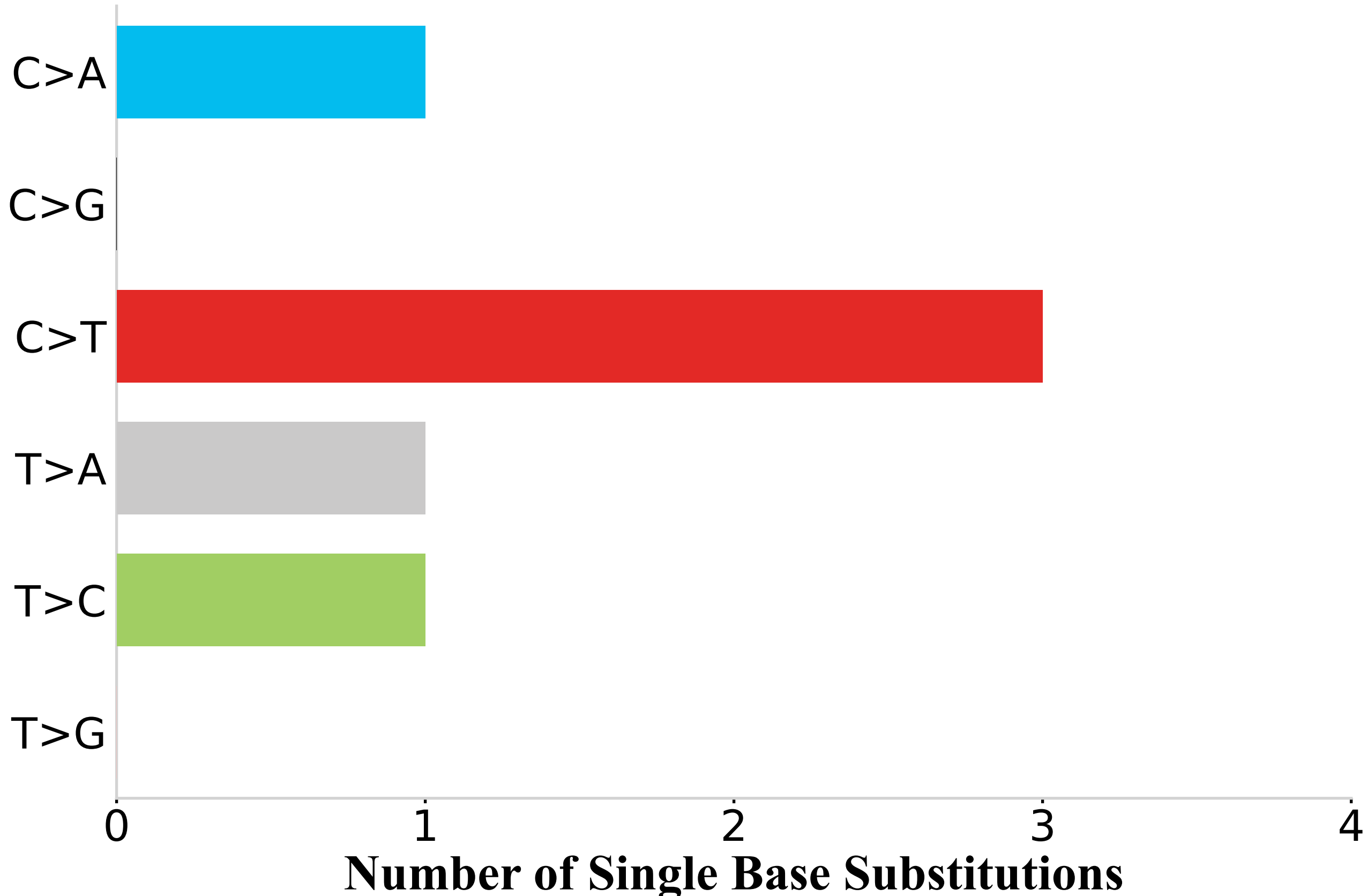
P-0023767-T01-IM6: 8 subs



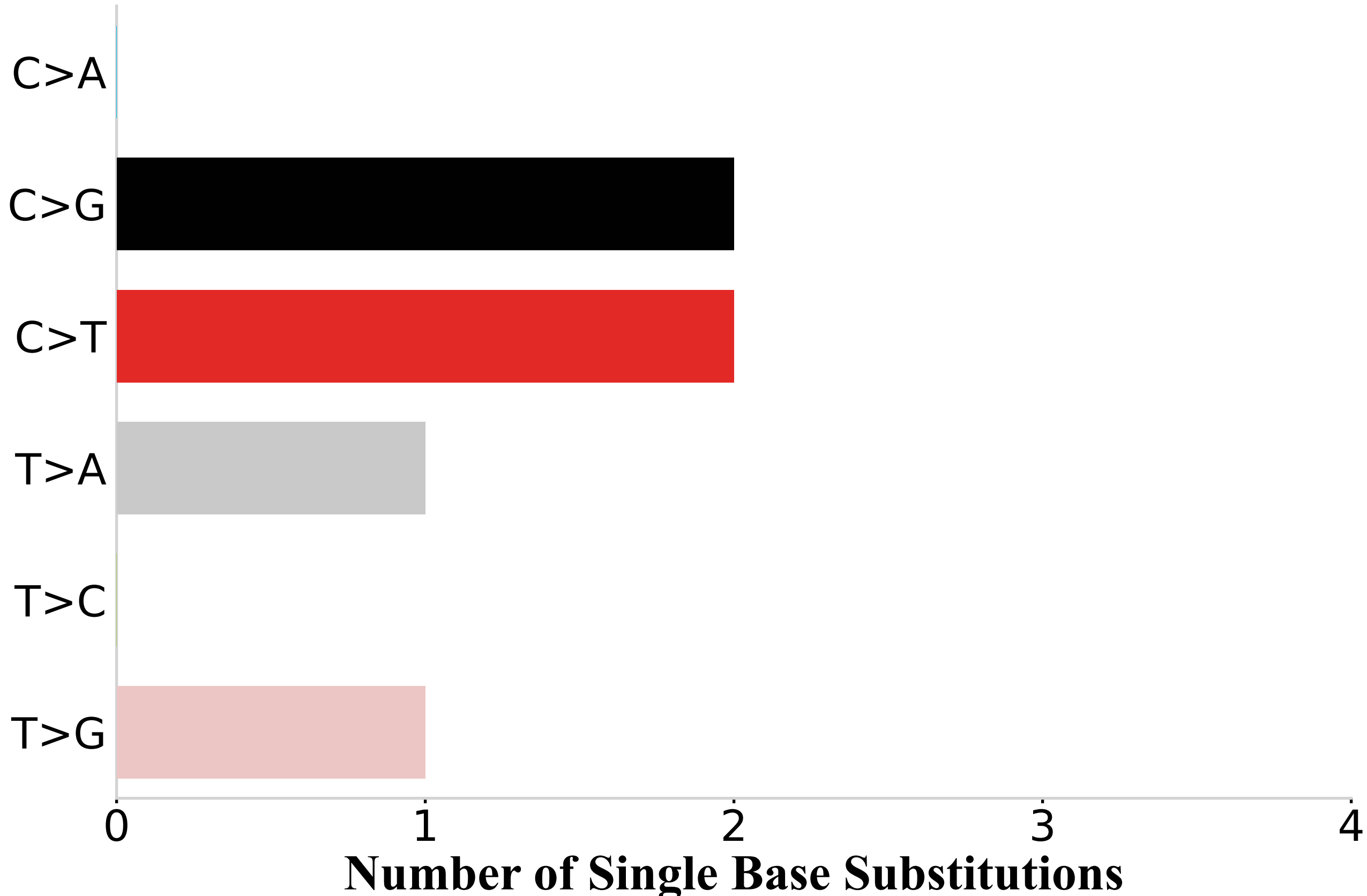
P-0023969-T01-IM6: 7 subs



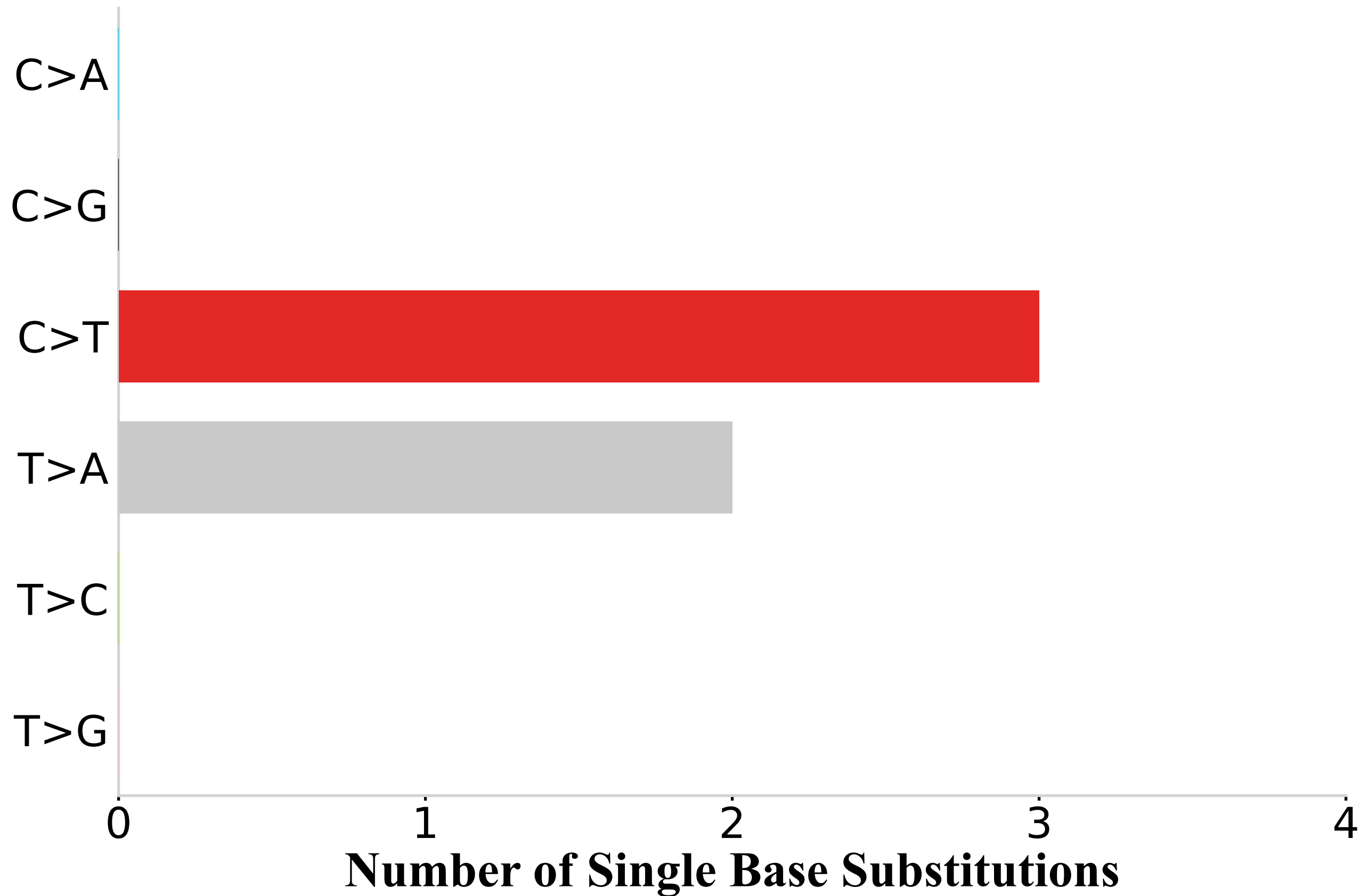
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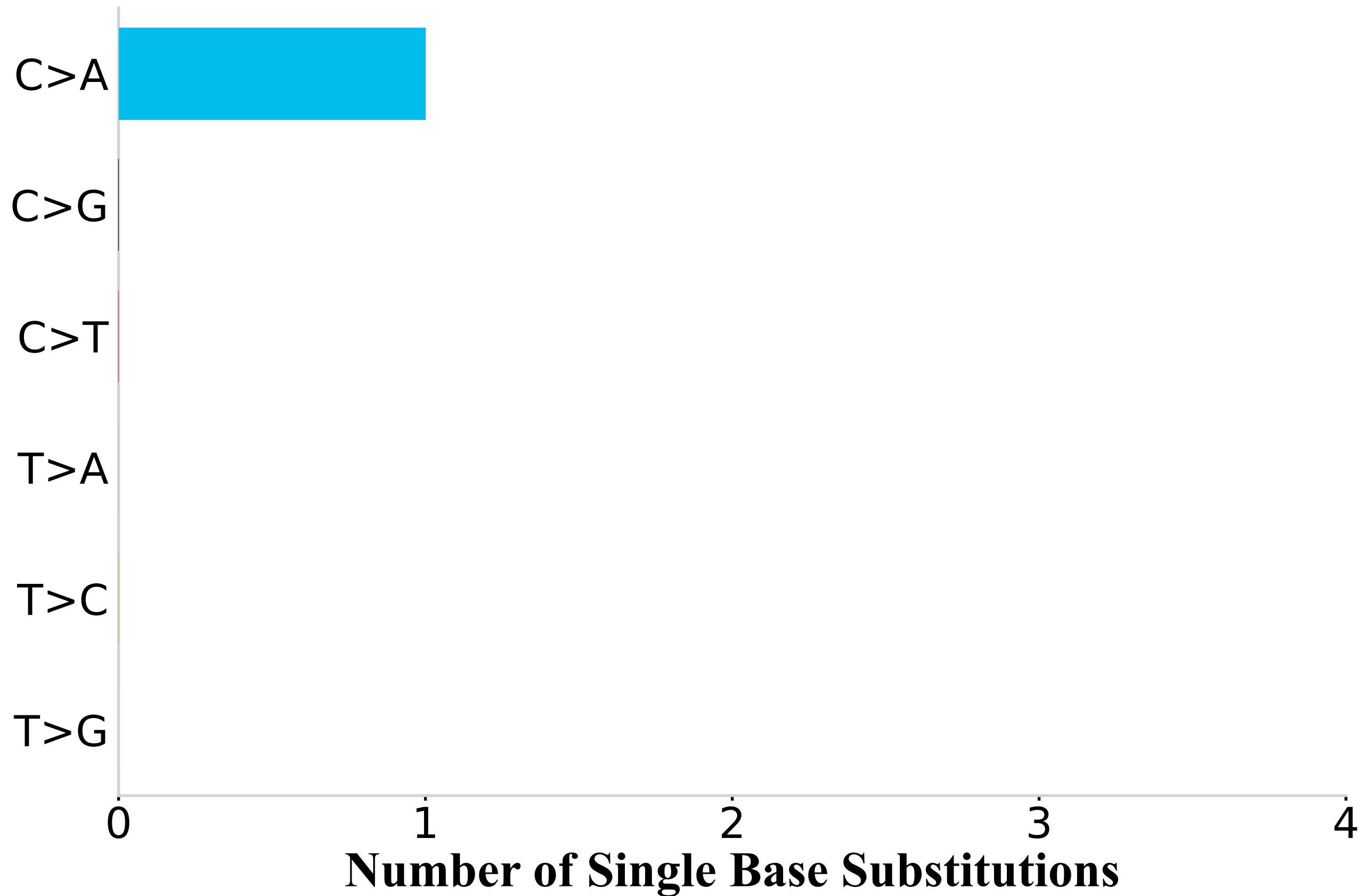
P-0024387-T01-IM6: 6 subs



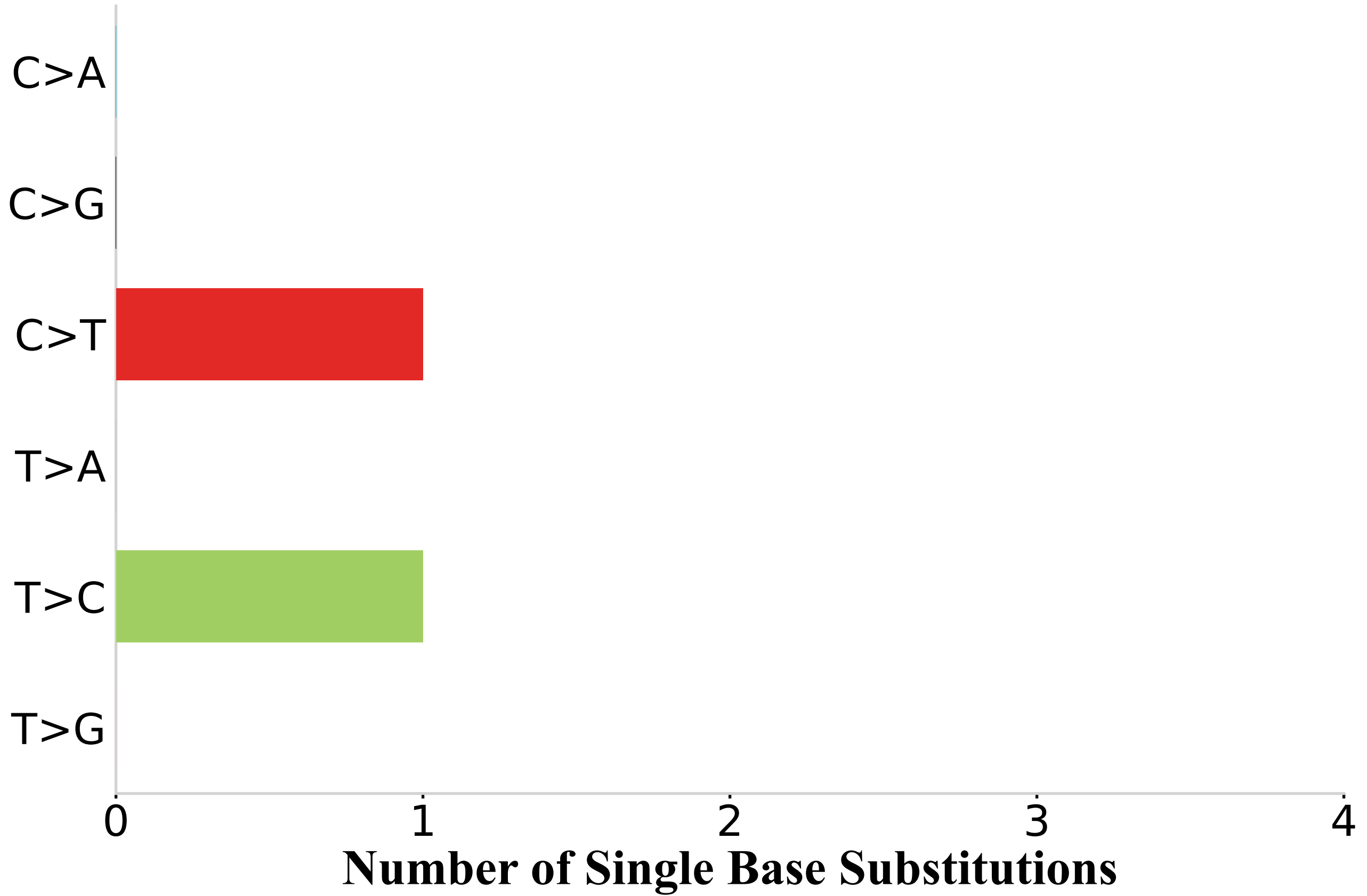
P-0024525-T01-IM6: 5 subs



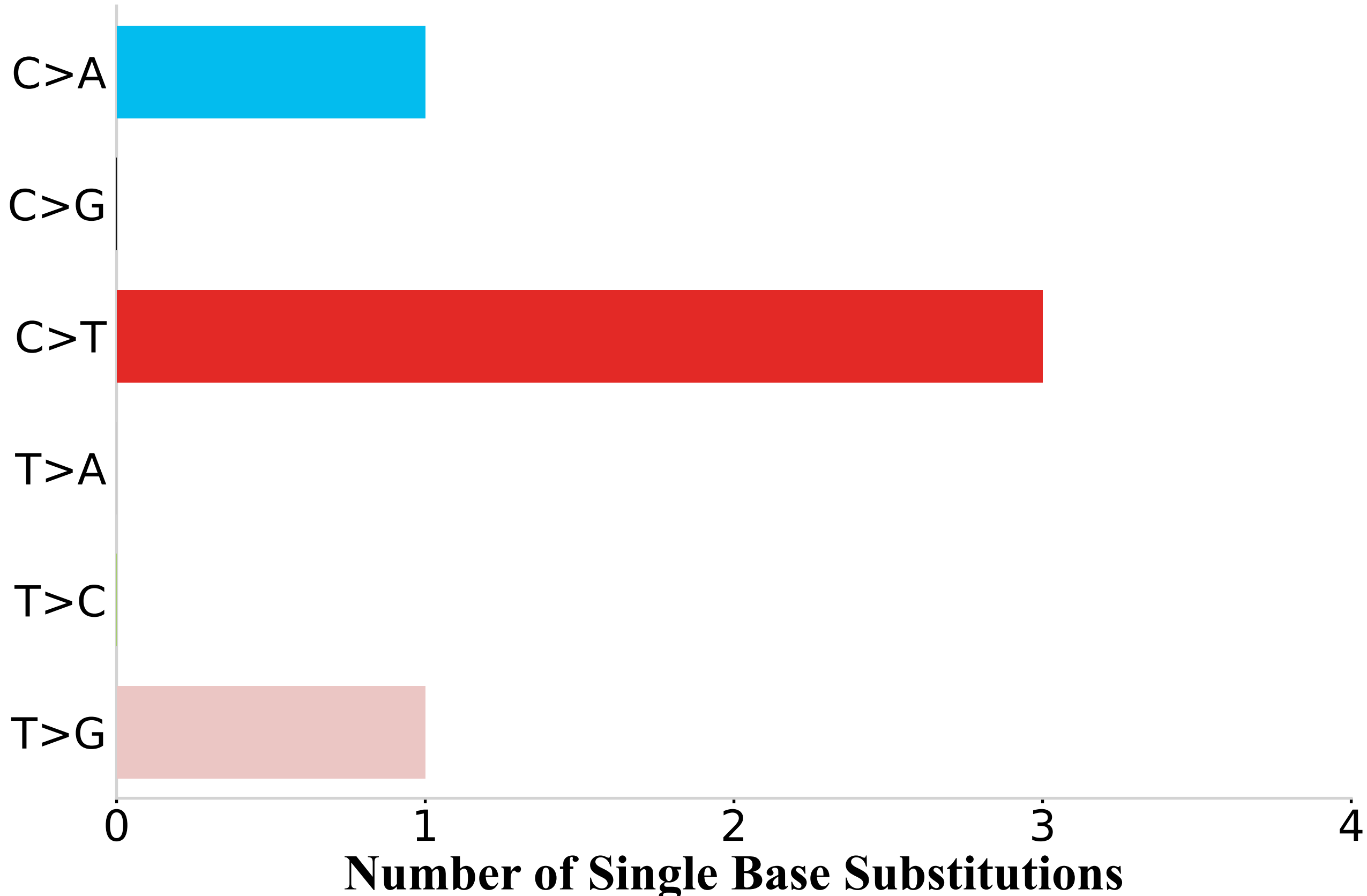
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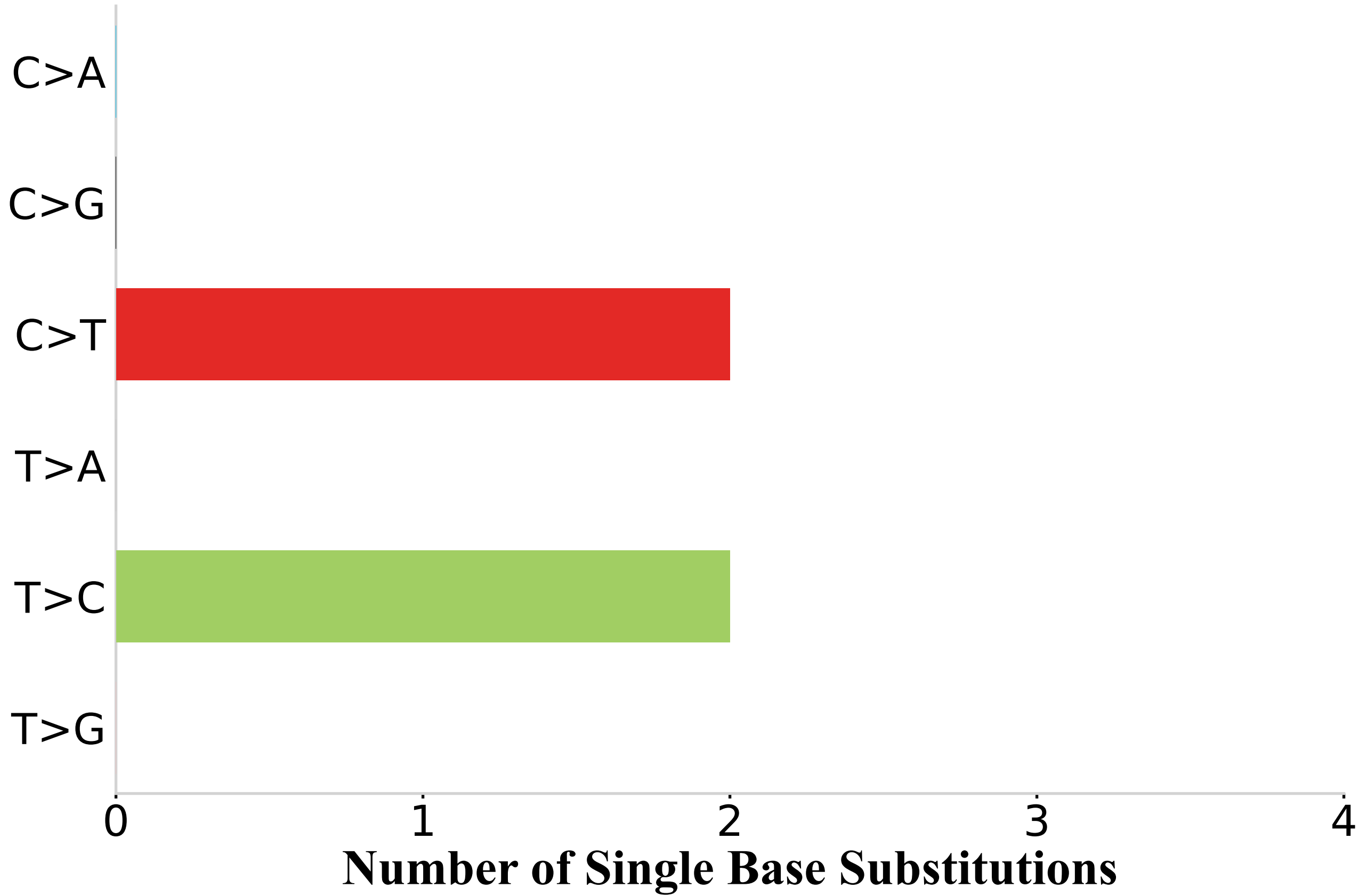
P-0024870-T01-IM6: 2 subs



P-0024930-T01-IM6: 5 subs



P-0024933-T01-IM6: 4 subs



P-0024997-T01-IM6: 5 subs

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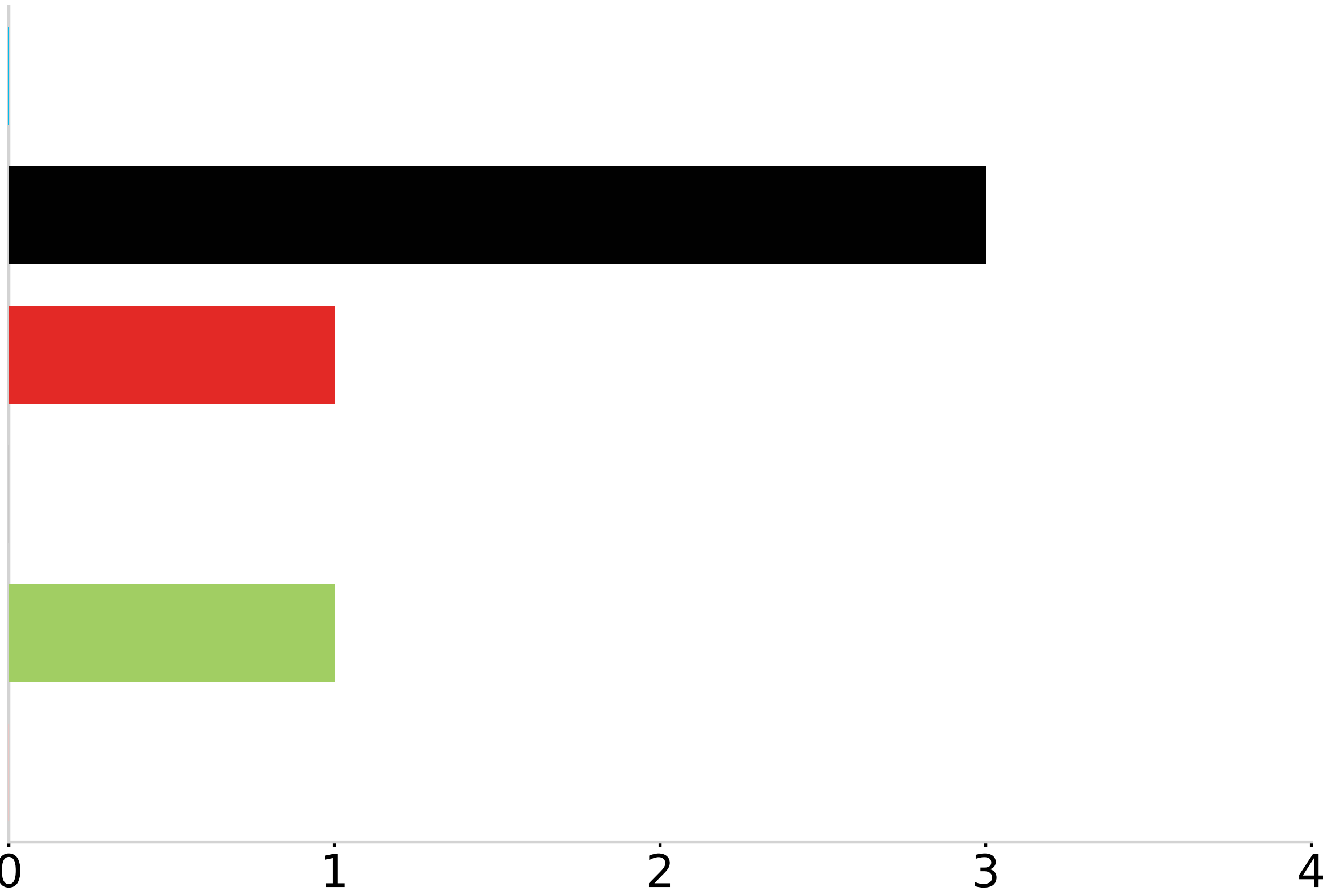
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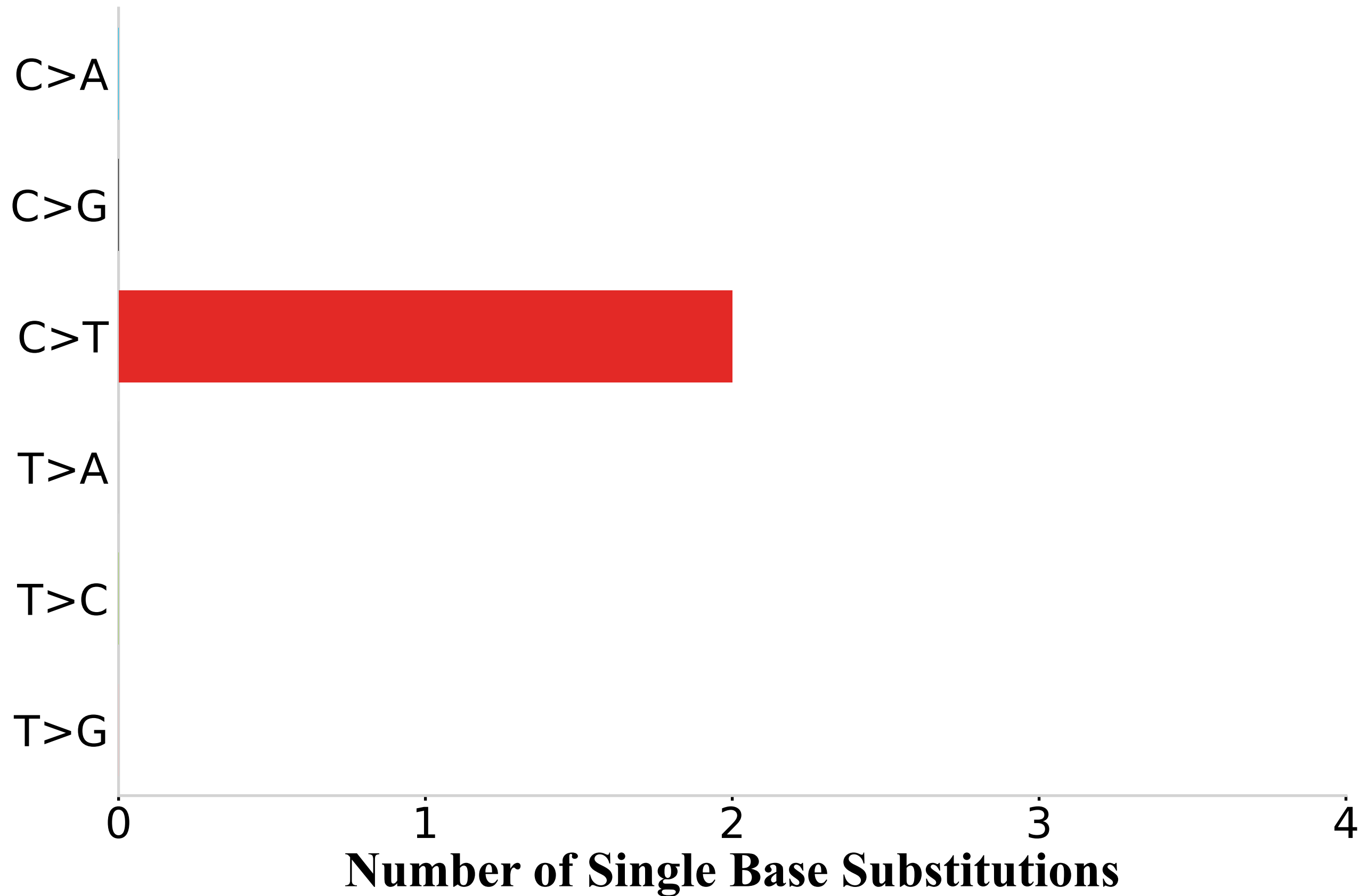
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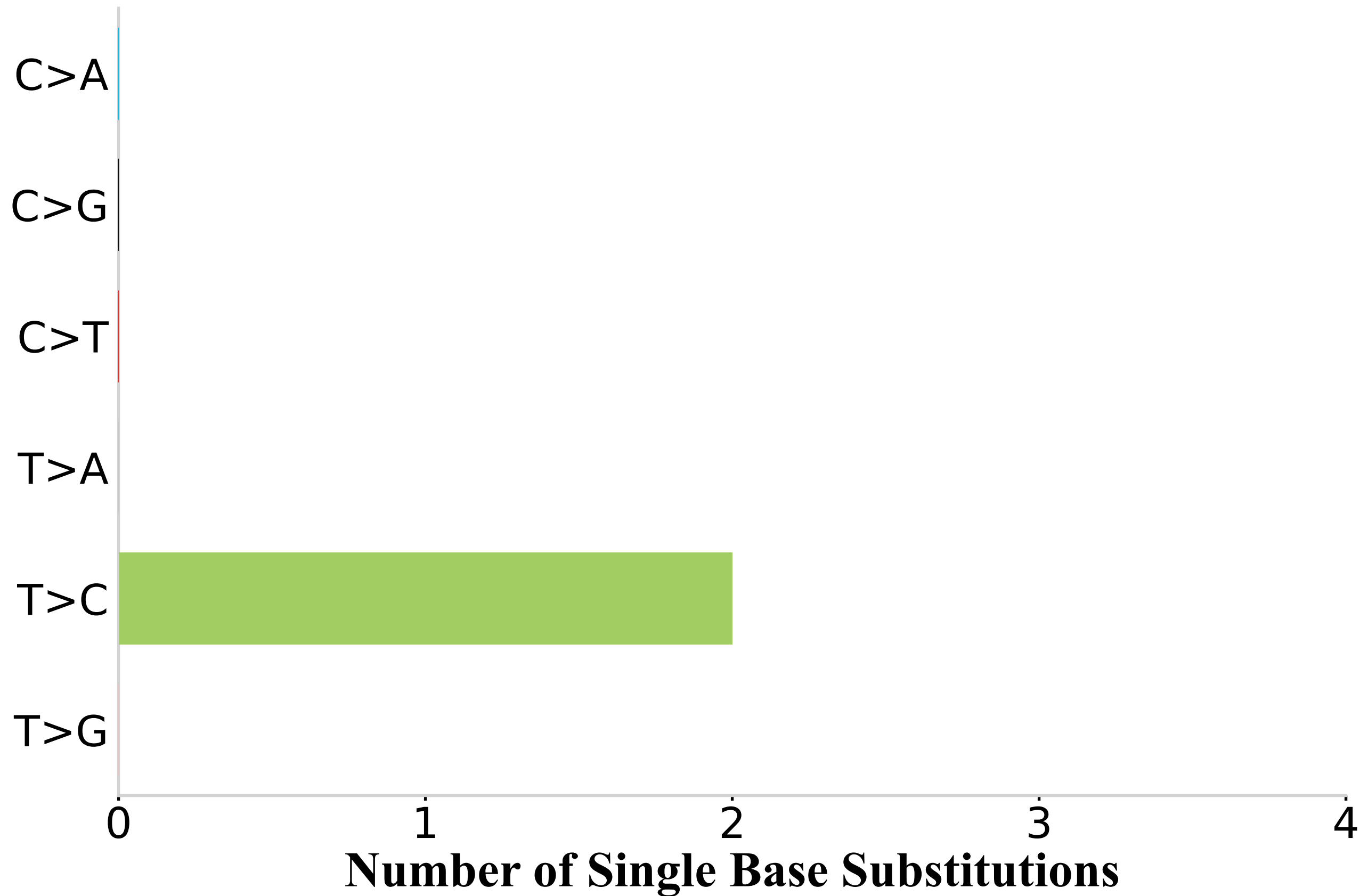
Number of Single Base Substitutions



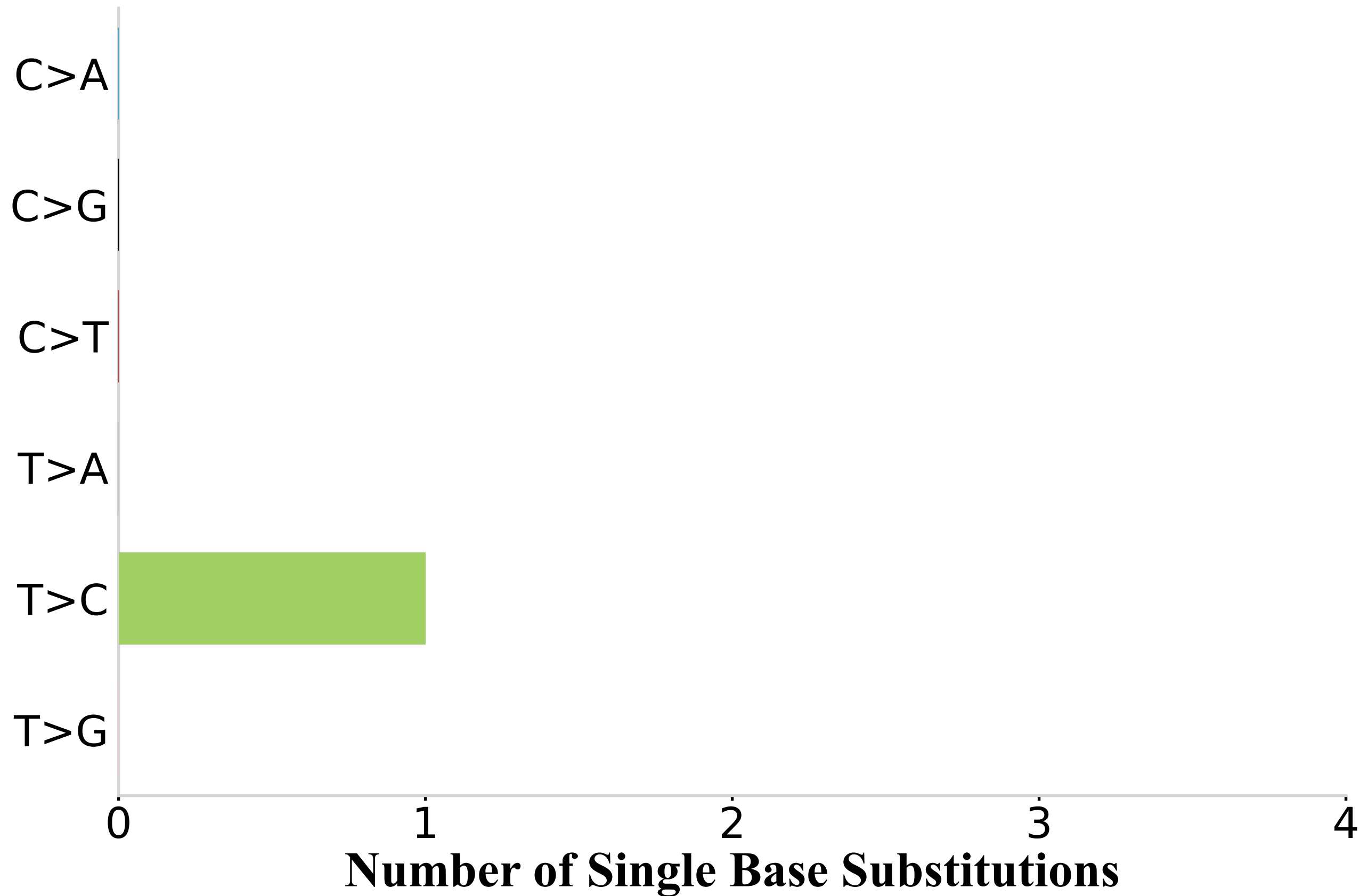
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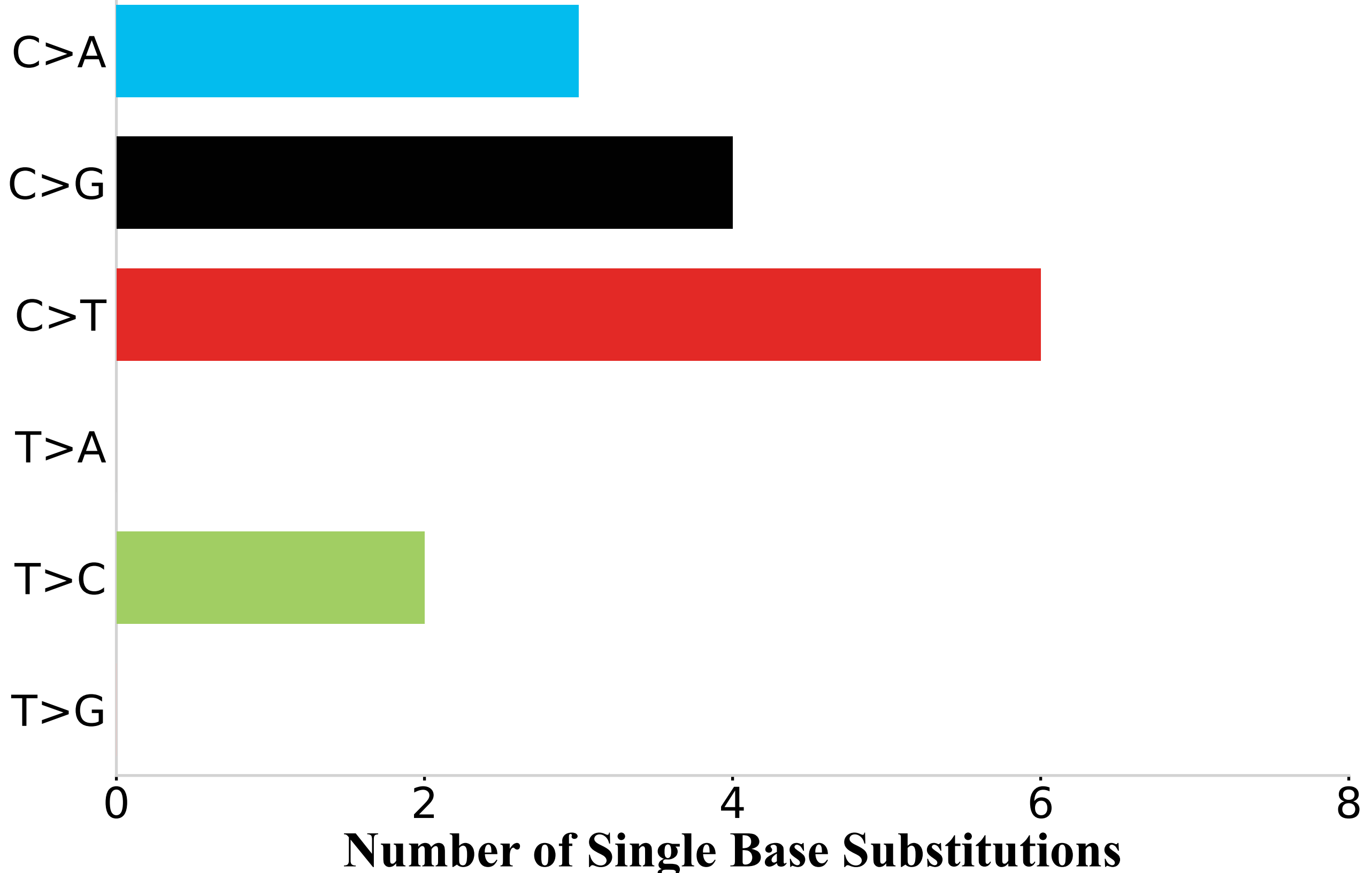
P-0025343-T01-IM6: 2 subs



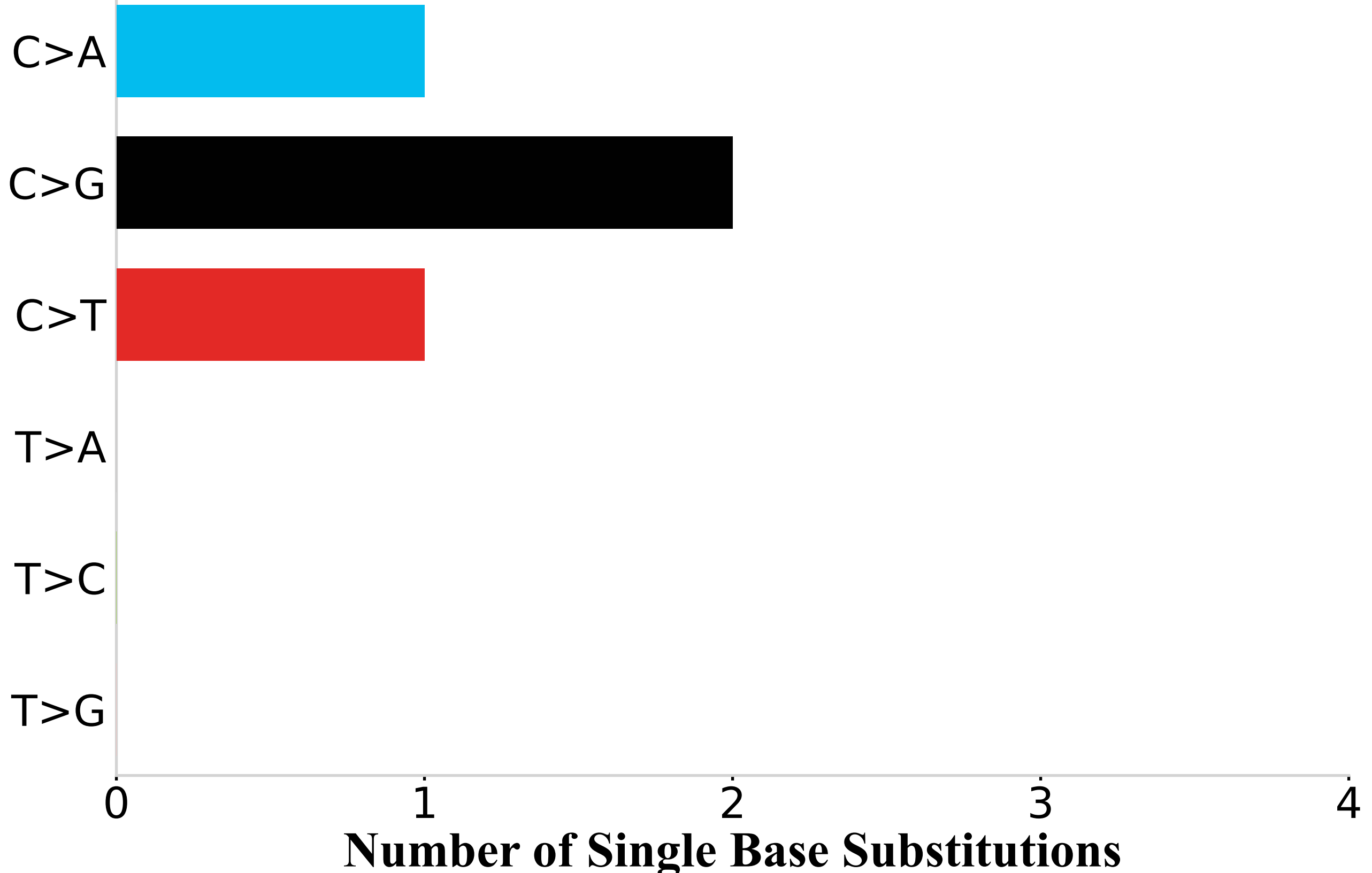
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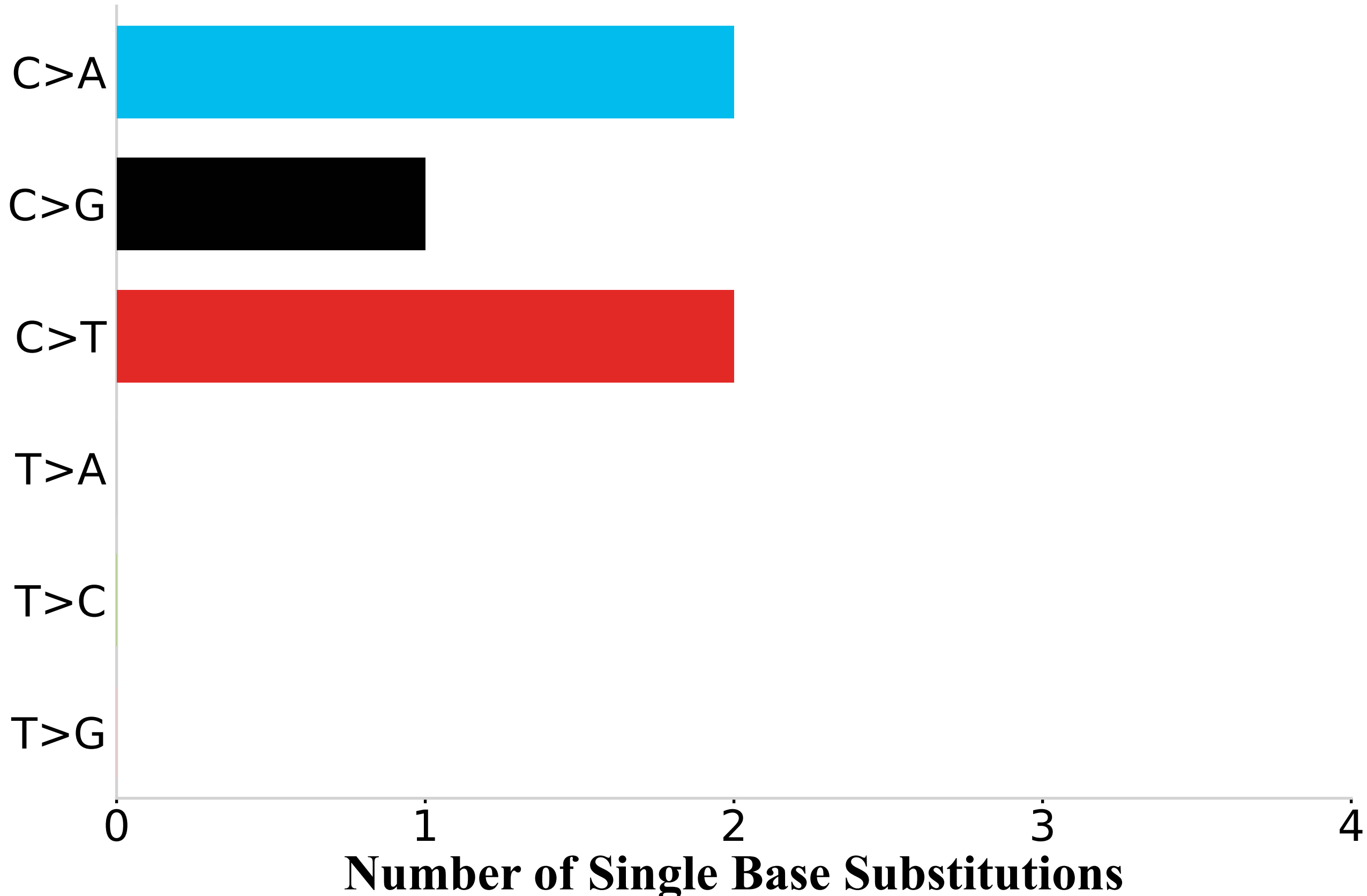
P-0026396-T01-IM6: 15 subs



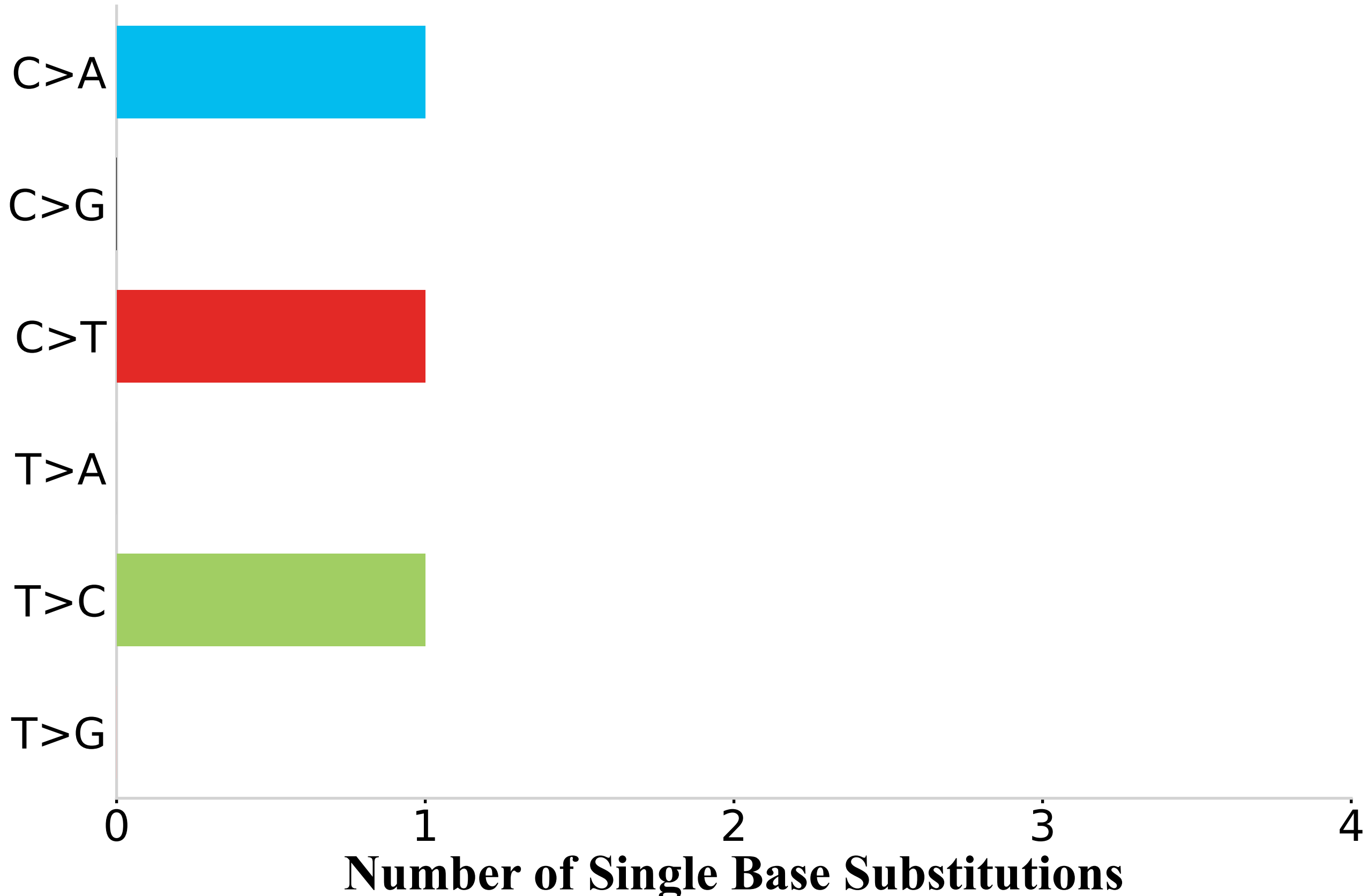
P-0026485-T01-IM6: 4 subs



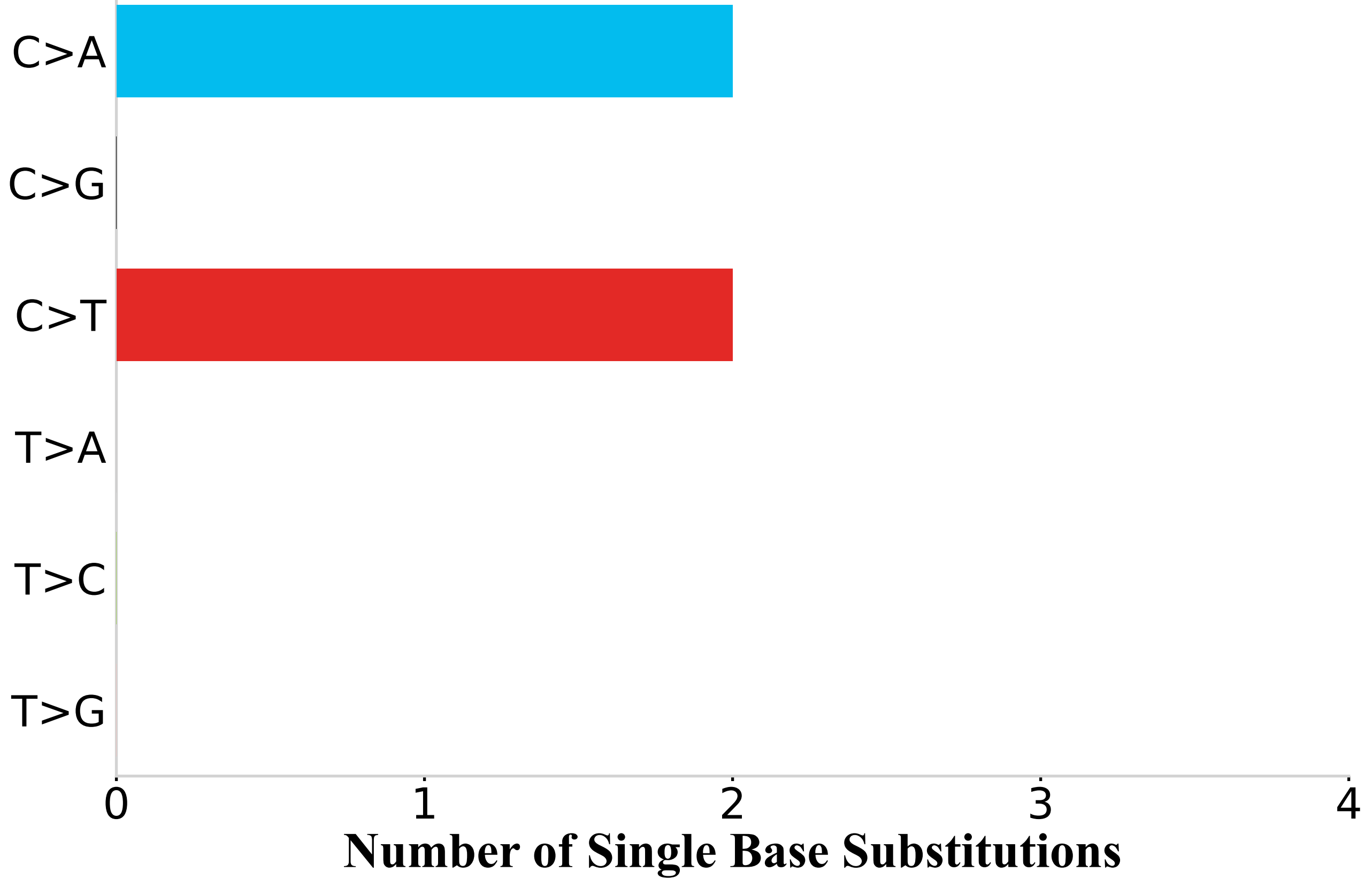
P-0026667-T01-IM6: 5 subs



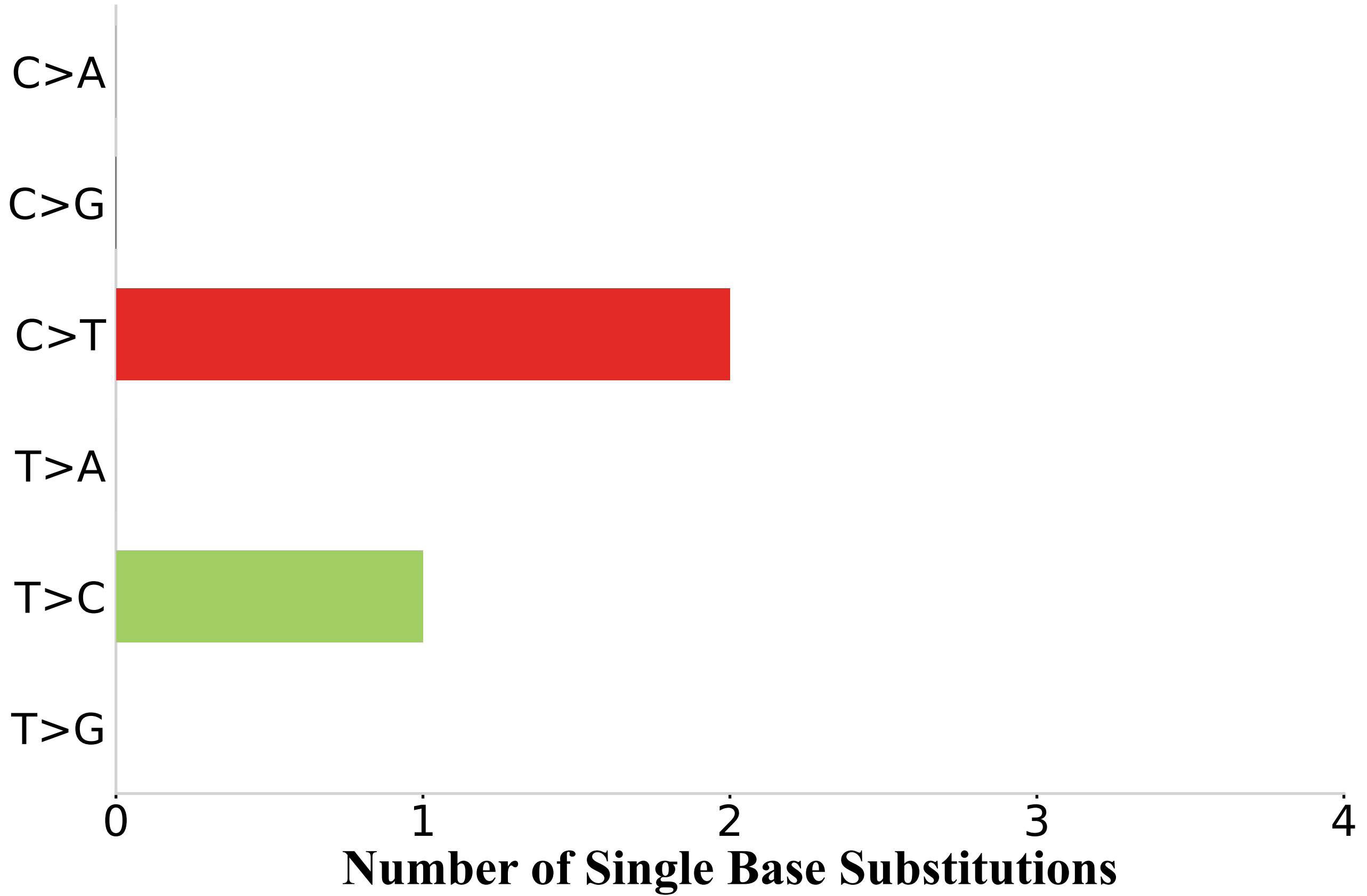
P-0026810-T01-IM6: 3 subs



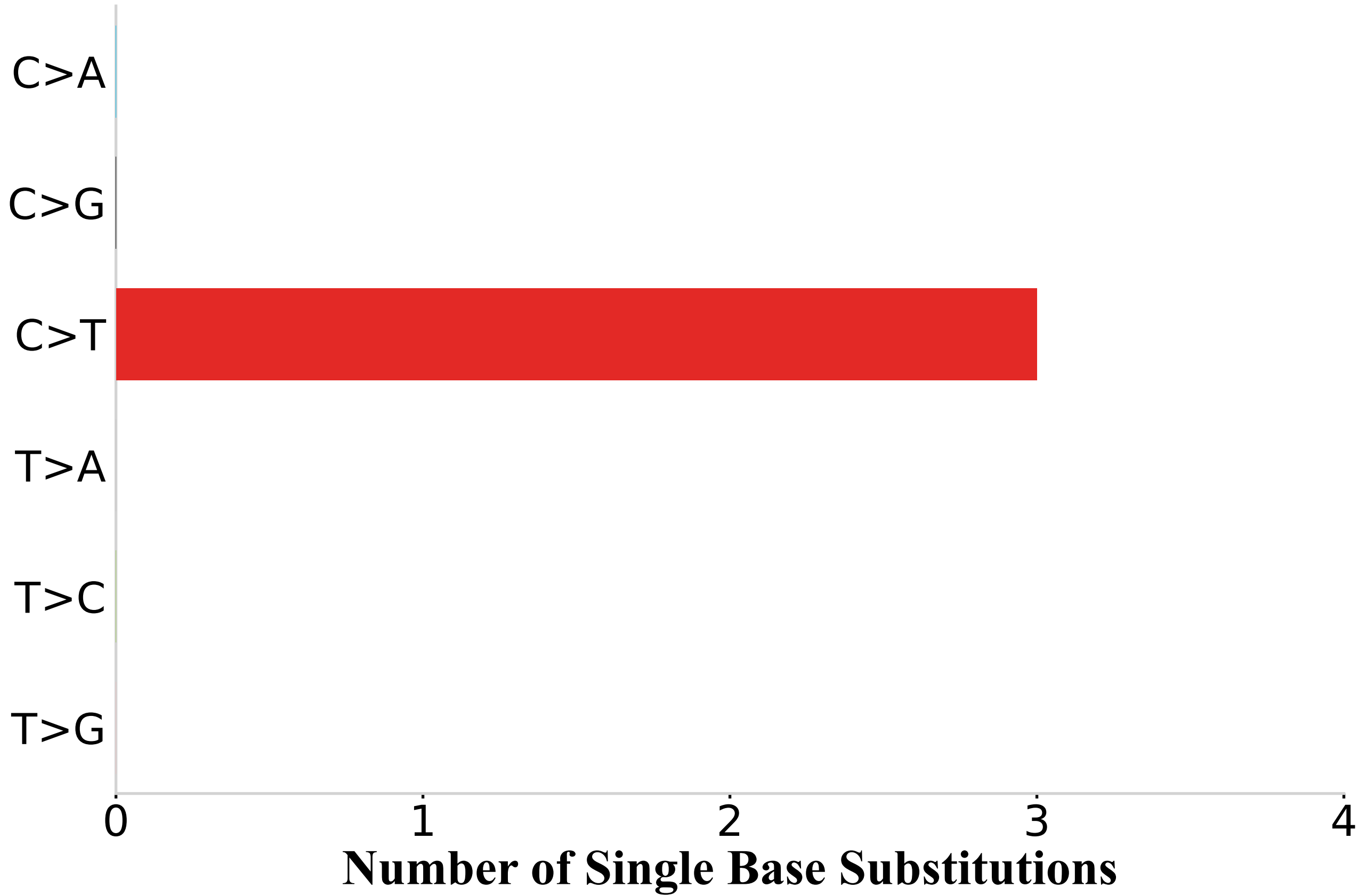
P-0027007-T01-IM6: 4 subs



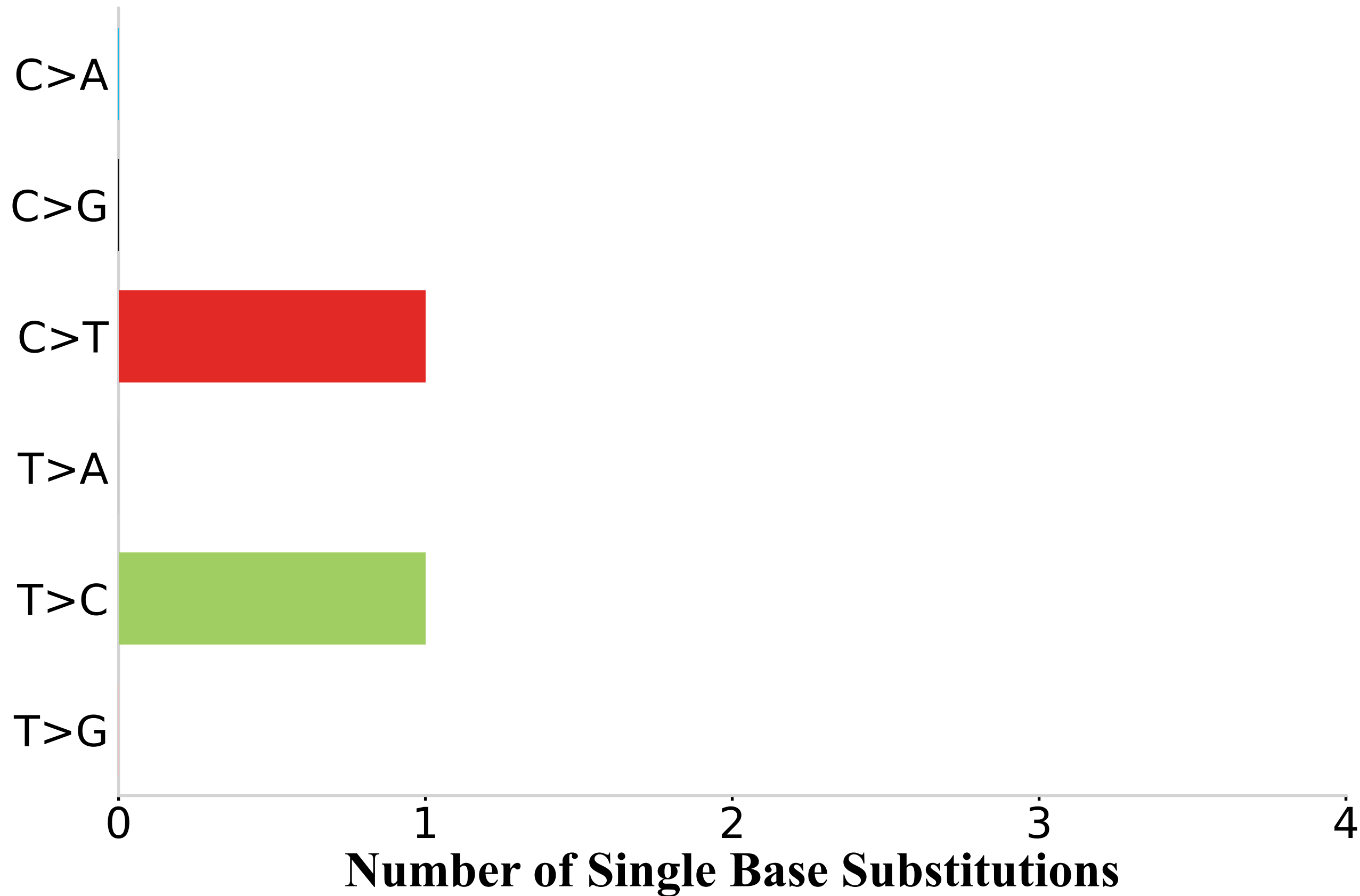
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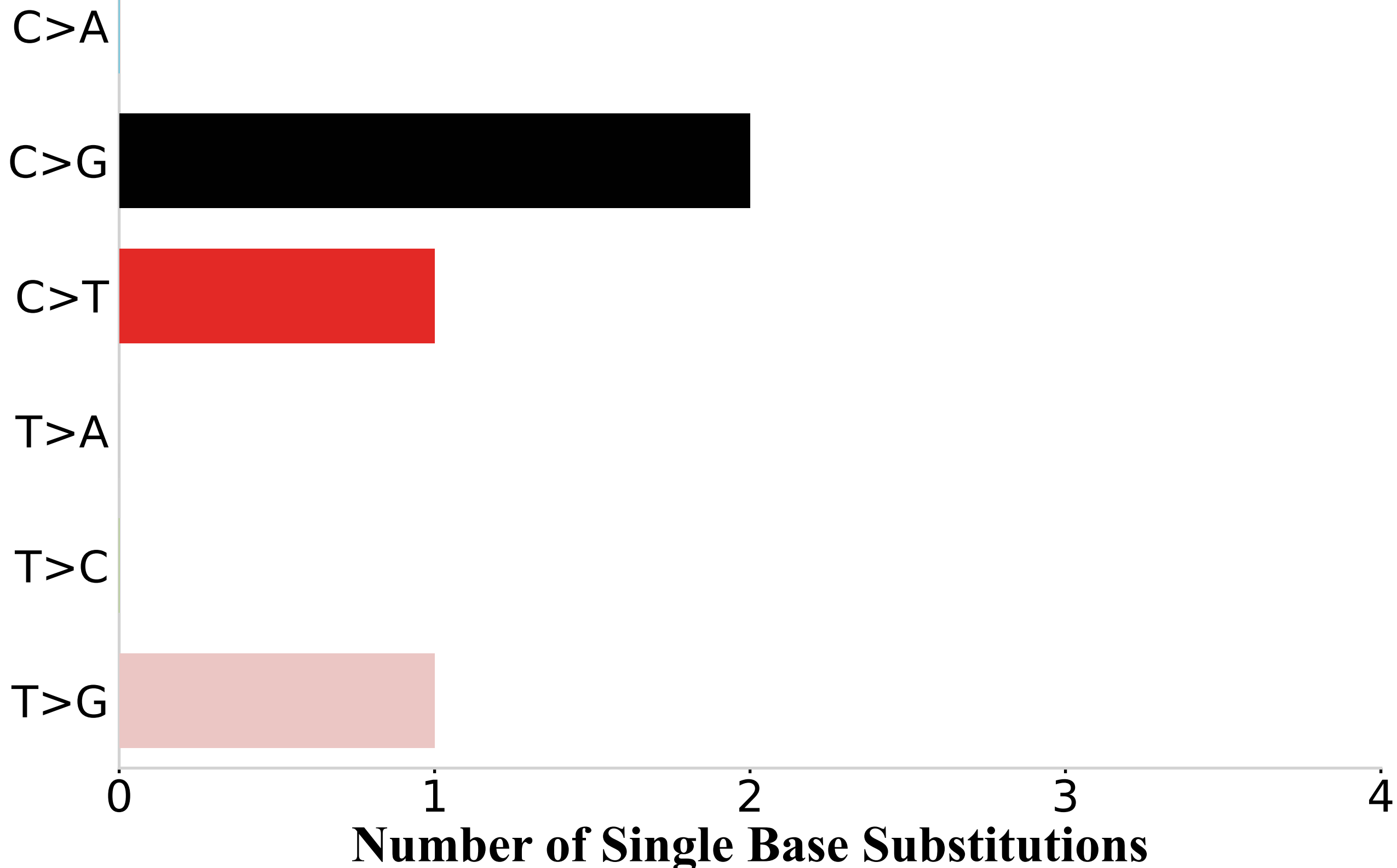
P-0027049-T04-IM6: 3 subs



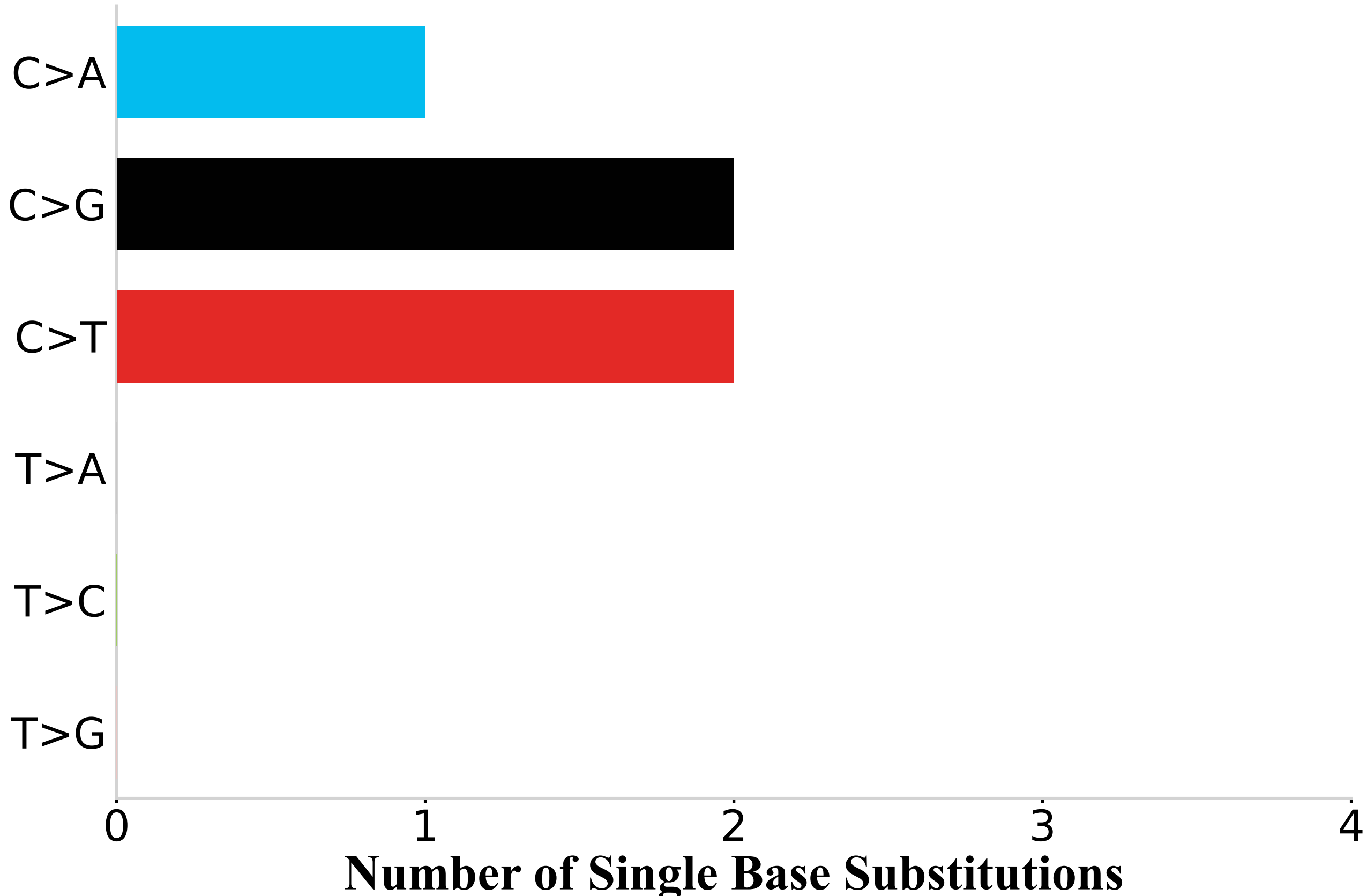
P-0027841-T01-IM6: 2 subs



P-0027892-T01-IM6: 4 subs



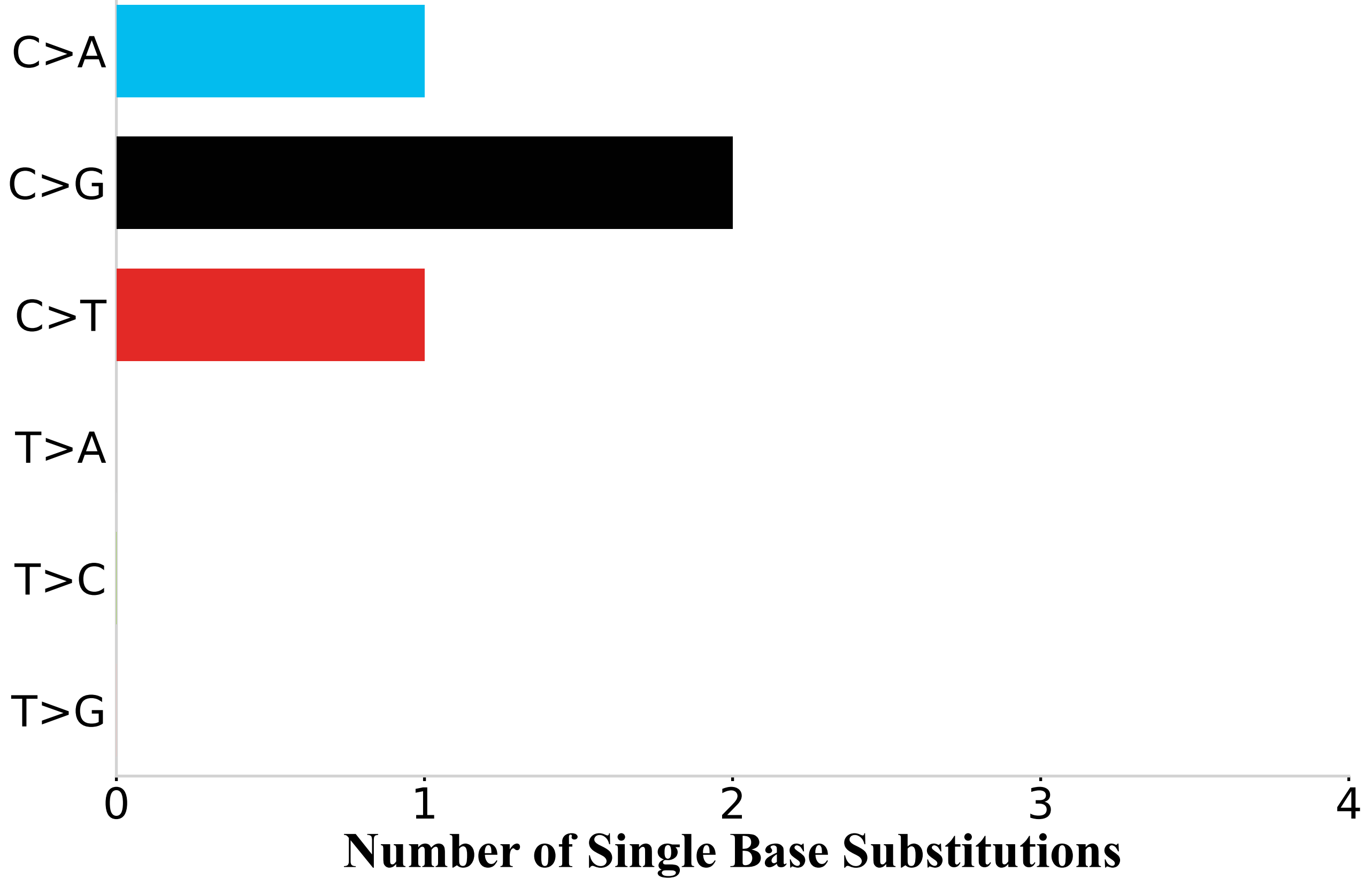
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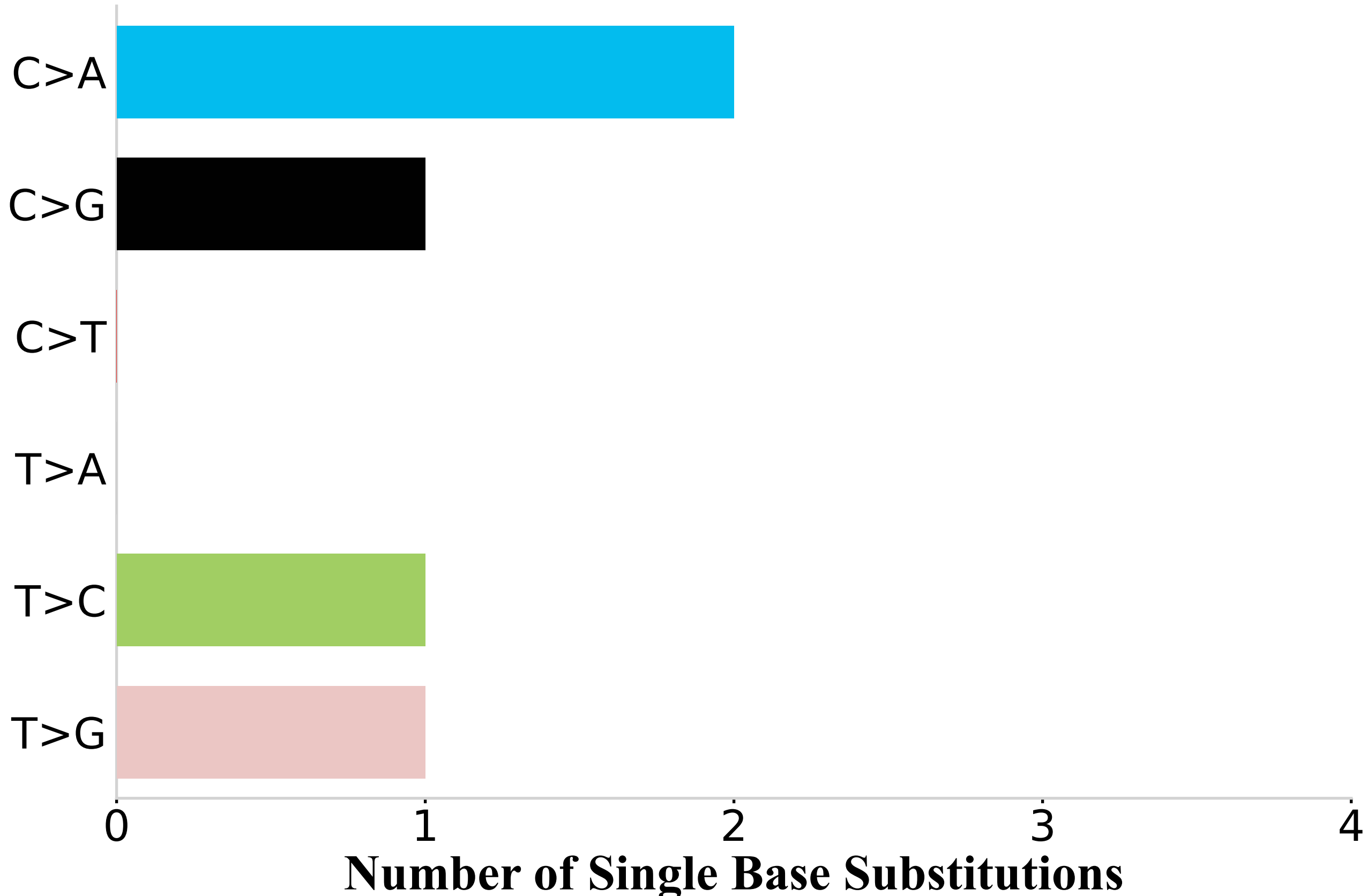
P-0028070-T01-IM6: 5 subs



P-0028155-T01-IM6: 4 subs



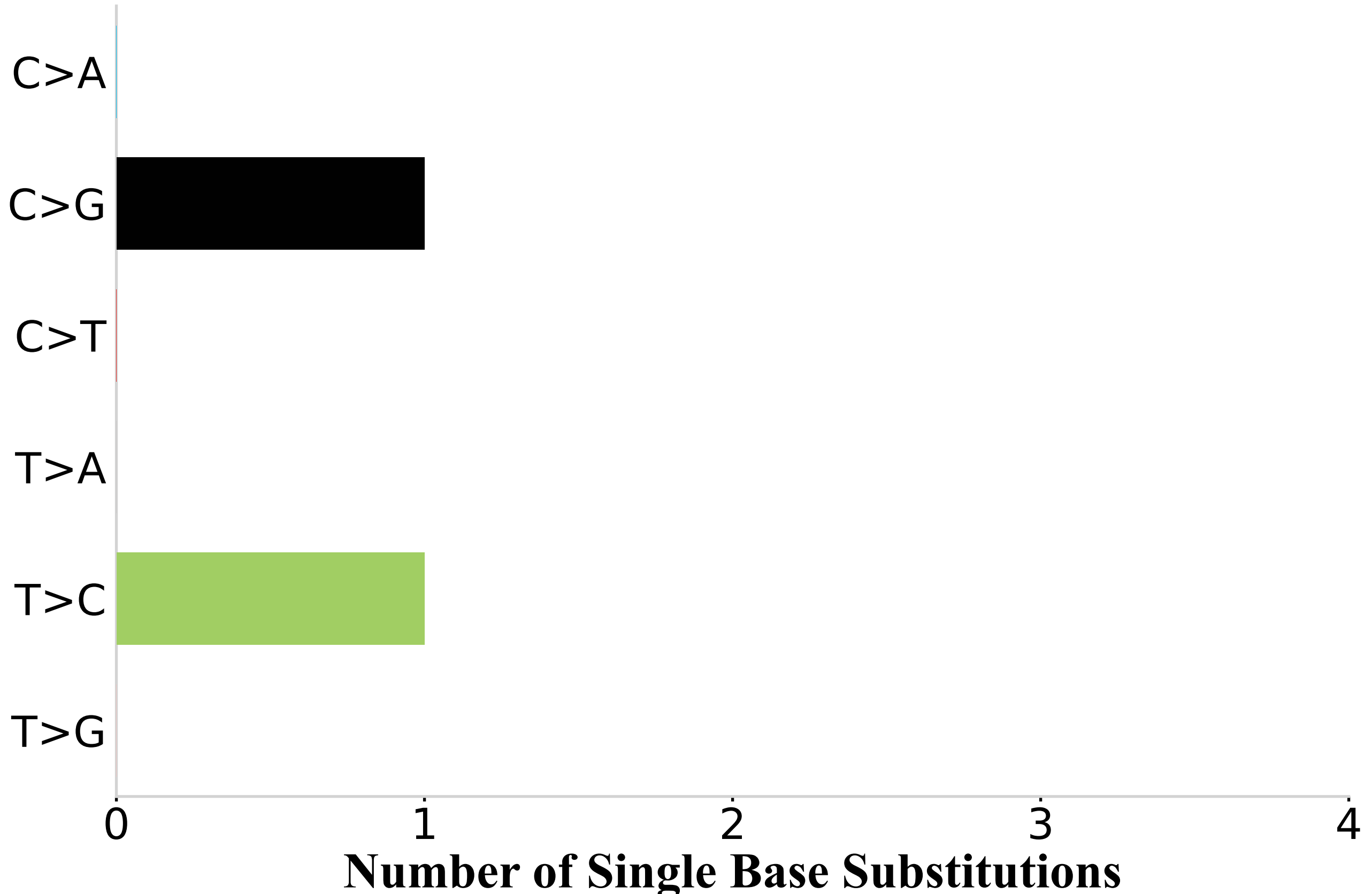
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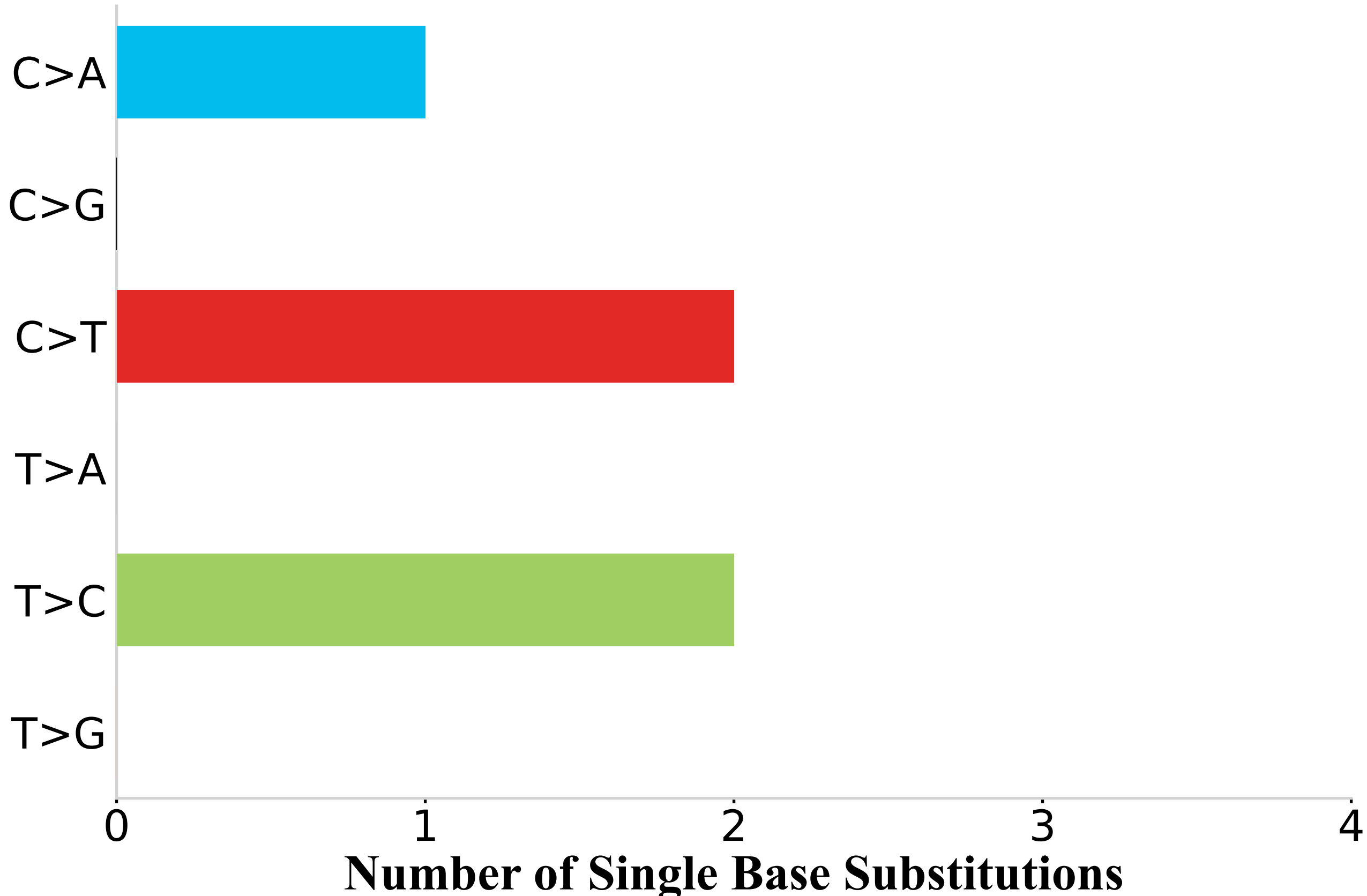
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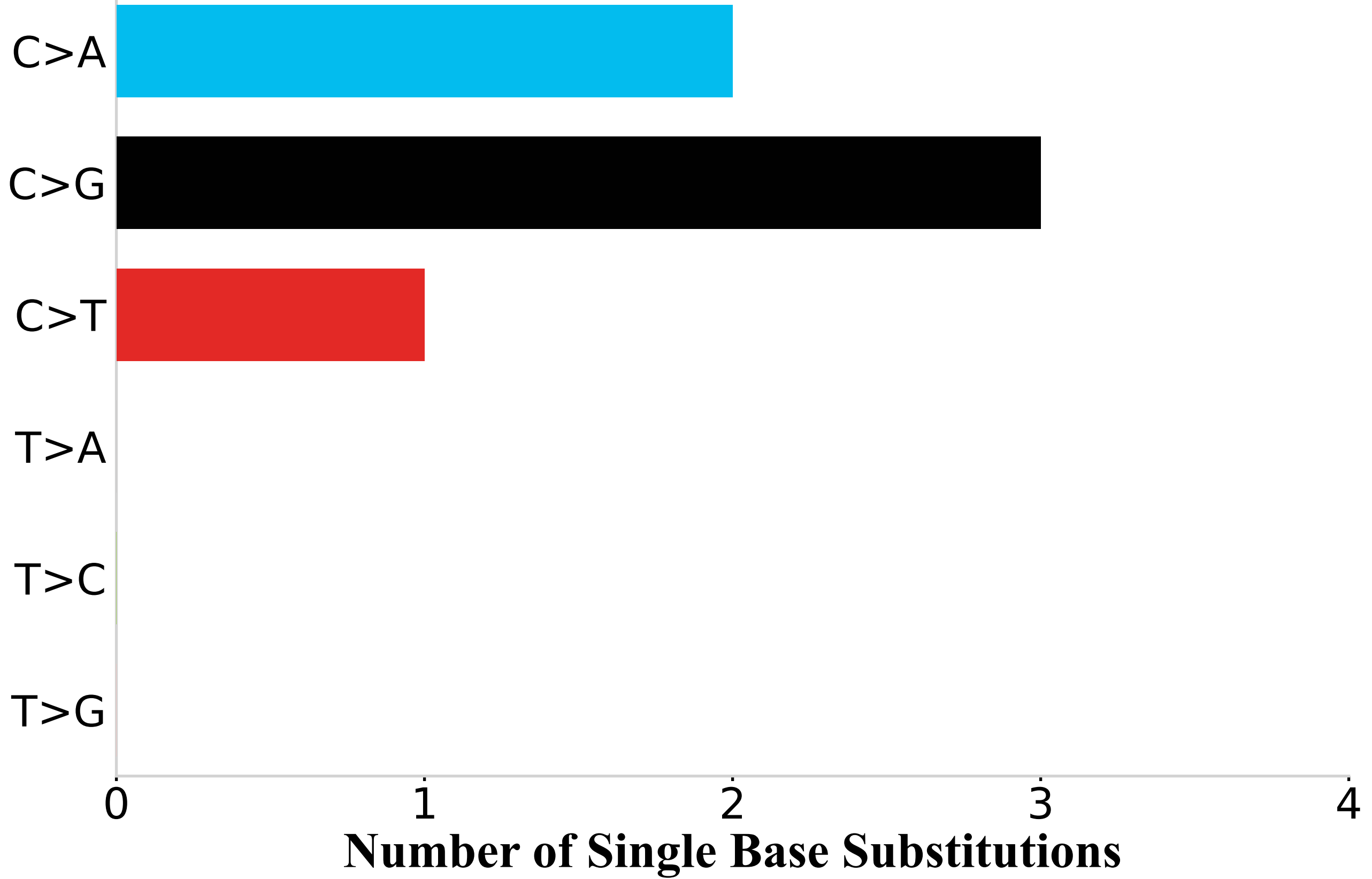
P-0028799-T01-IM6: 2 subs



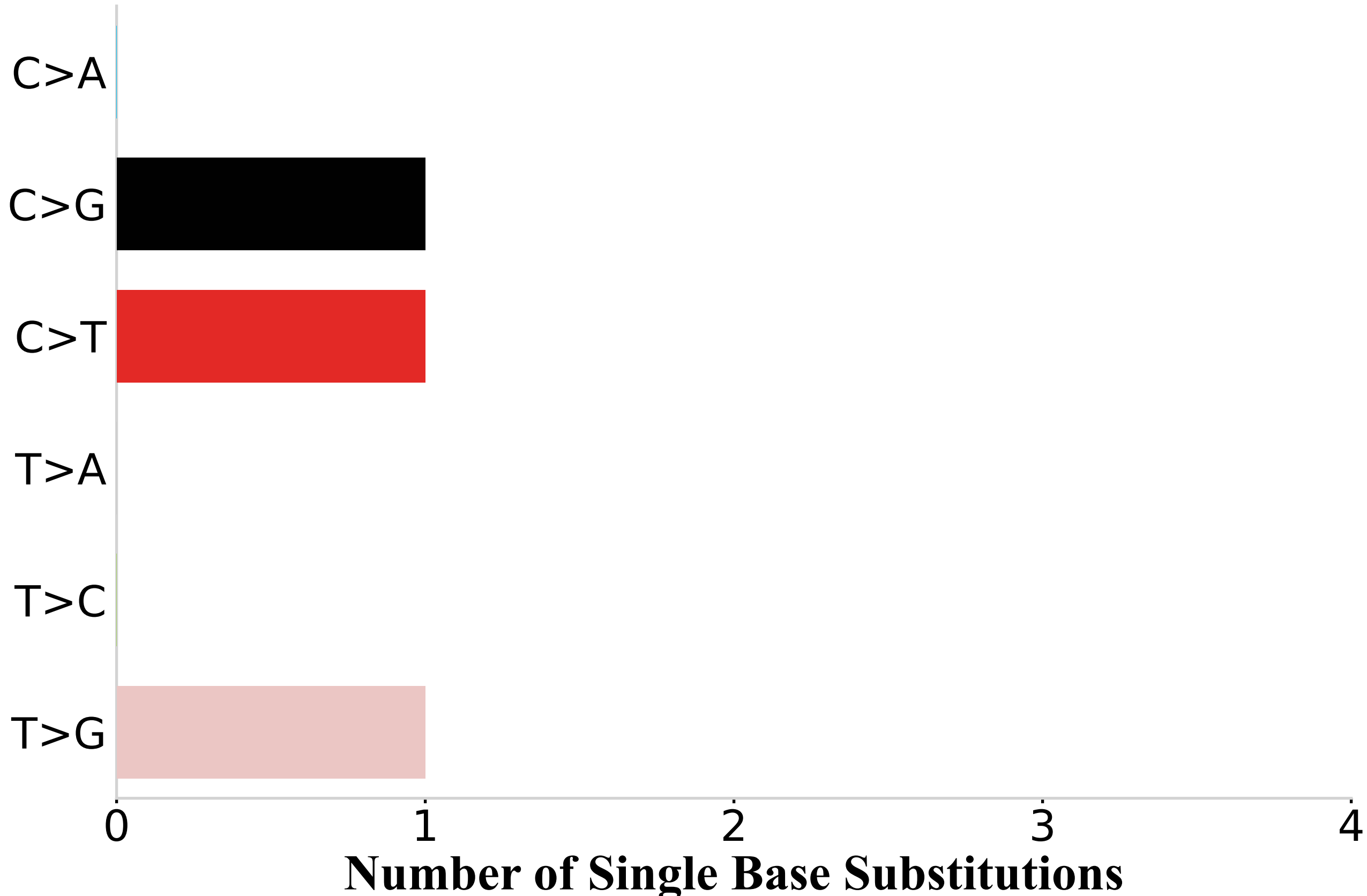
P-0028863-T01-IM6: 5 subs



P-0029117-T01-IM6: 6 subs



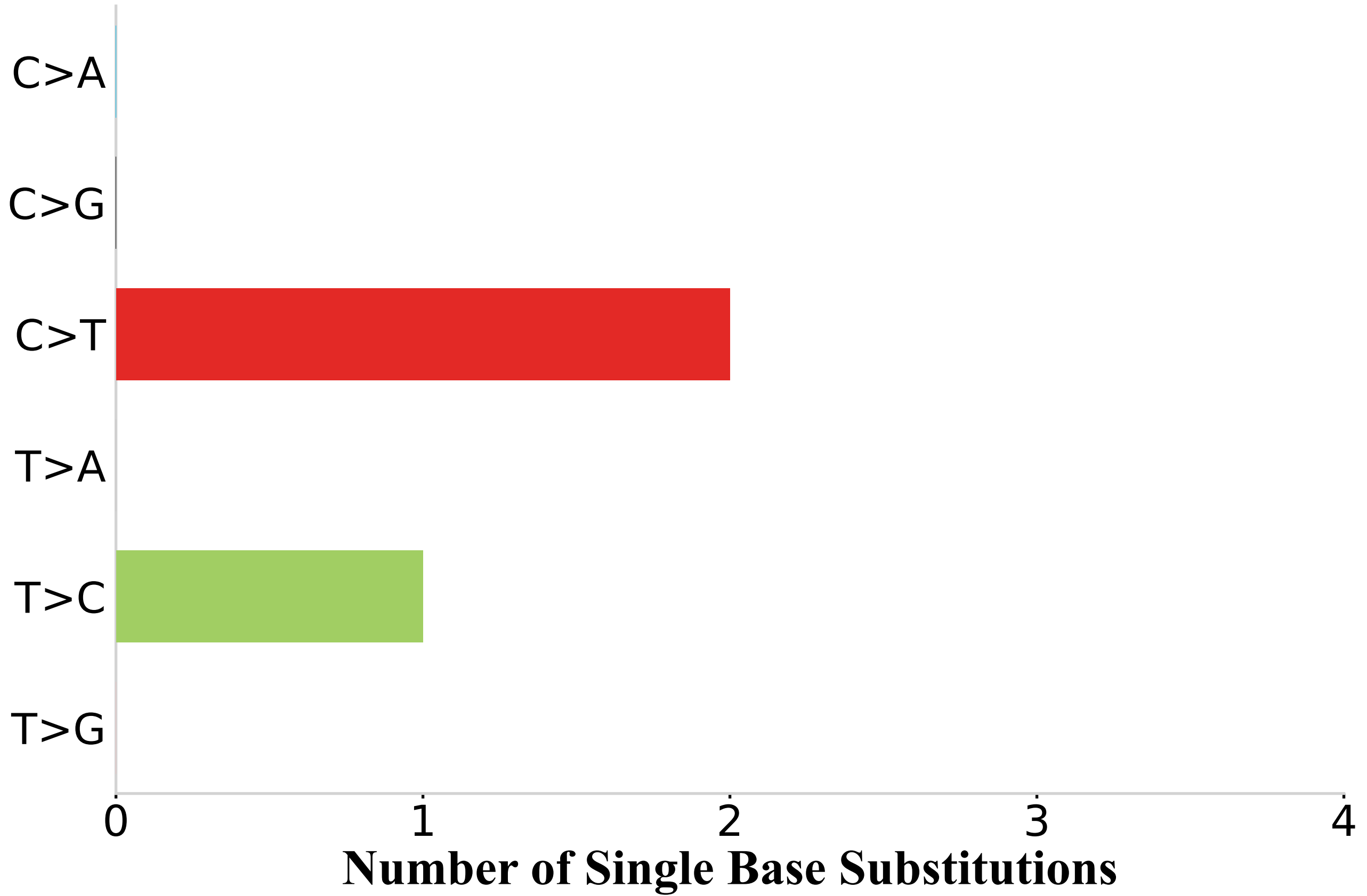
P-0029657-T01-IM6: 3 subs



P-0030357-T01-IM6: 2 subs



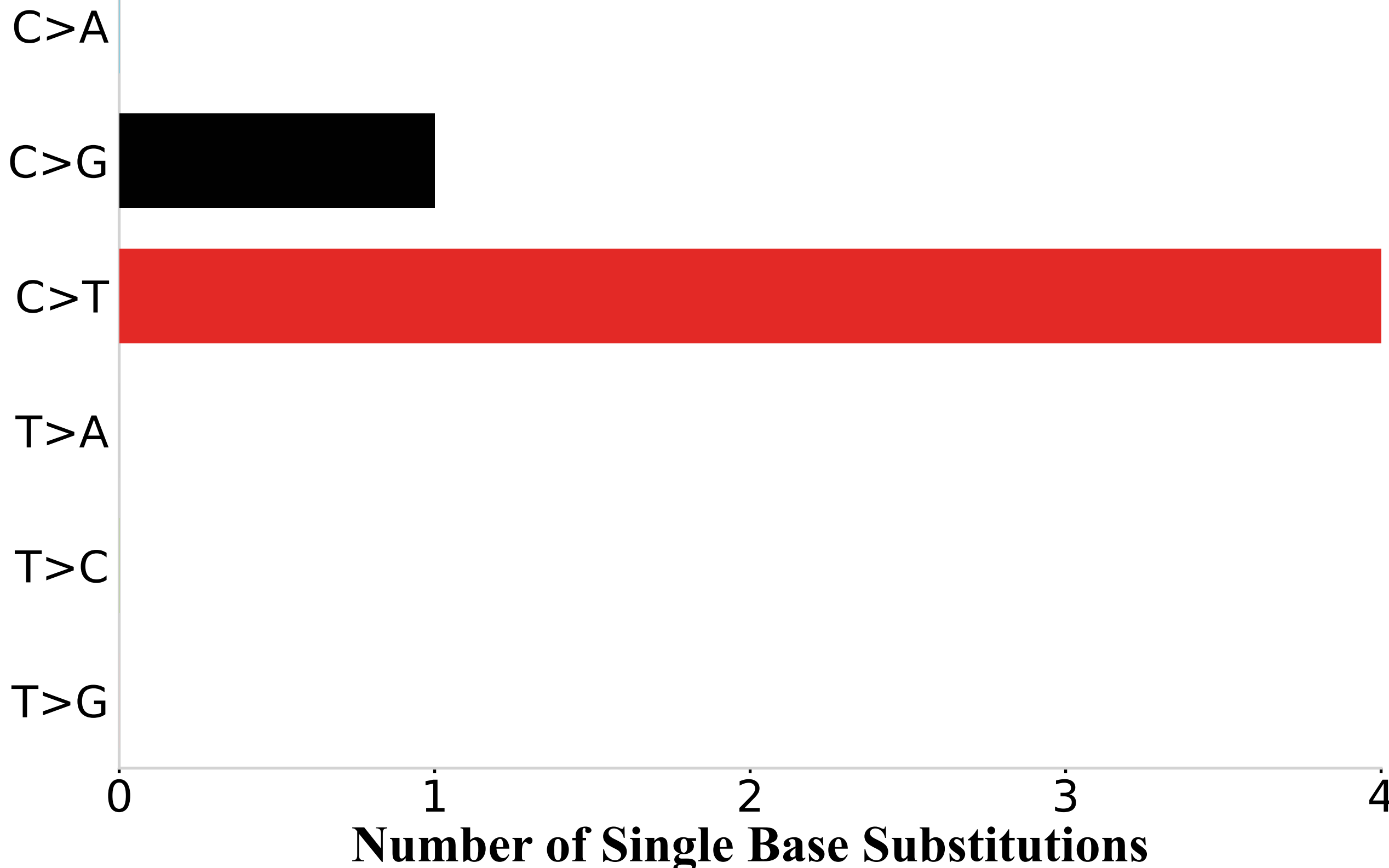
P-0030466-T01-IM6: 3 subs



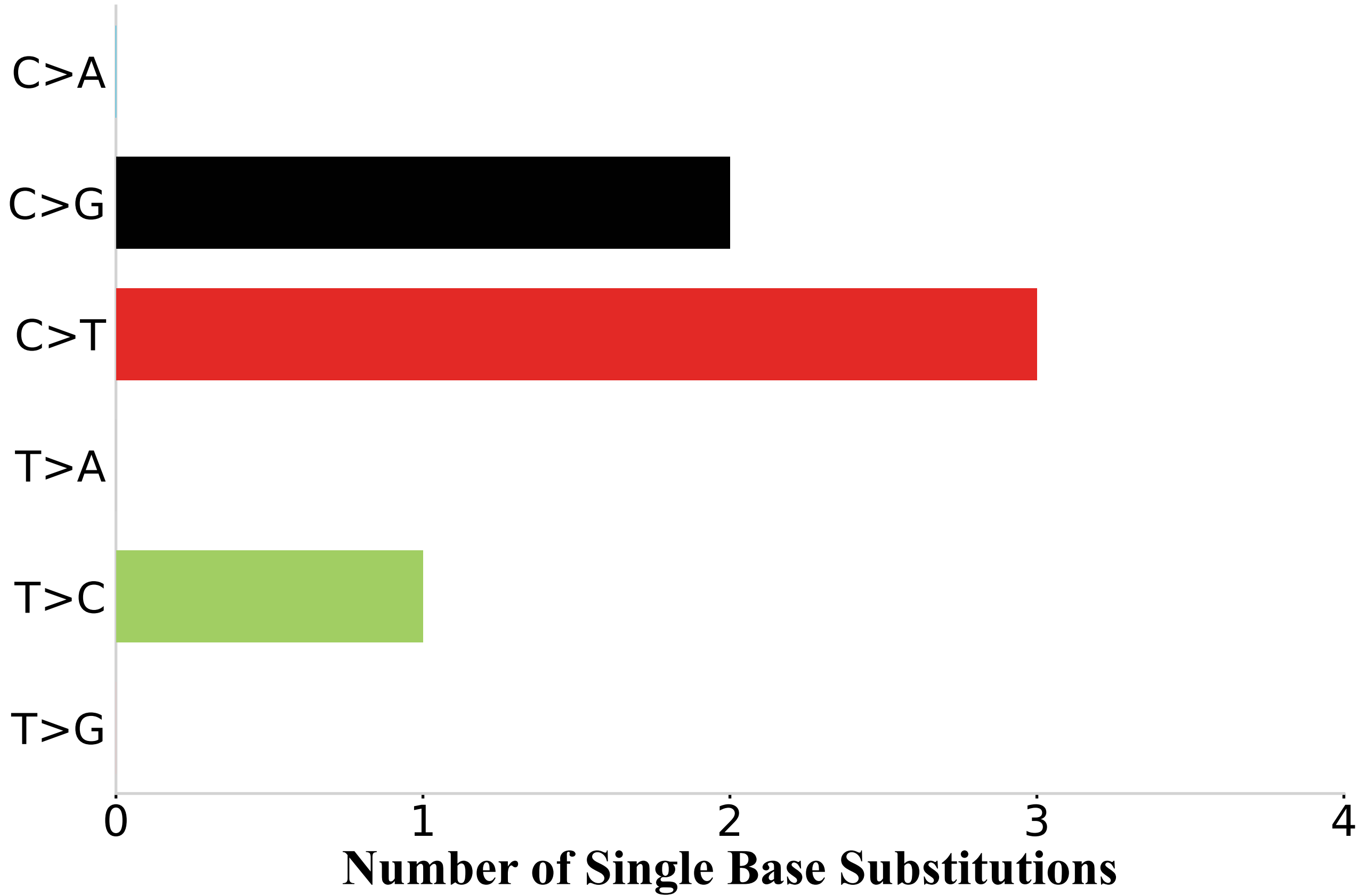
P-0030469-T01-IM6: 1 subs



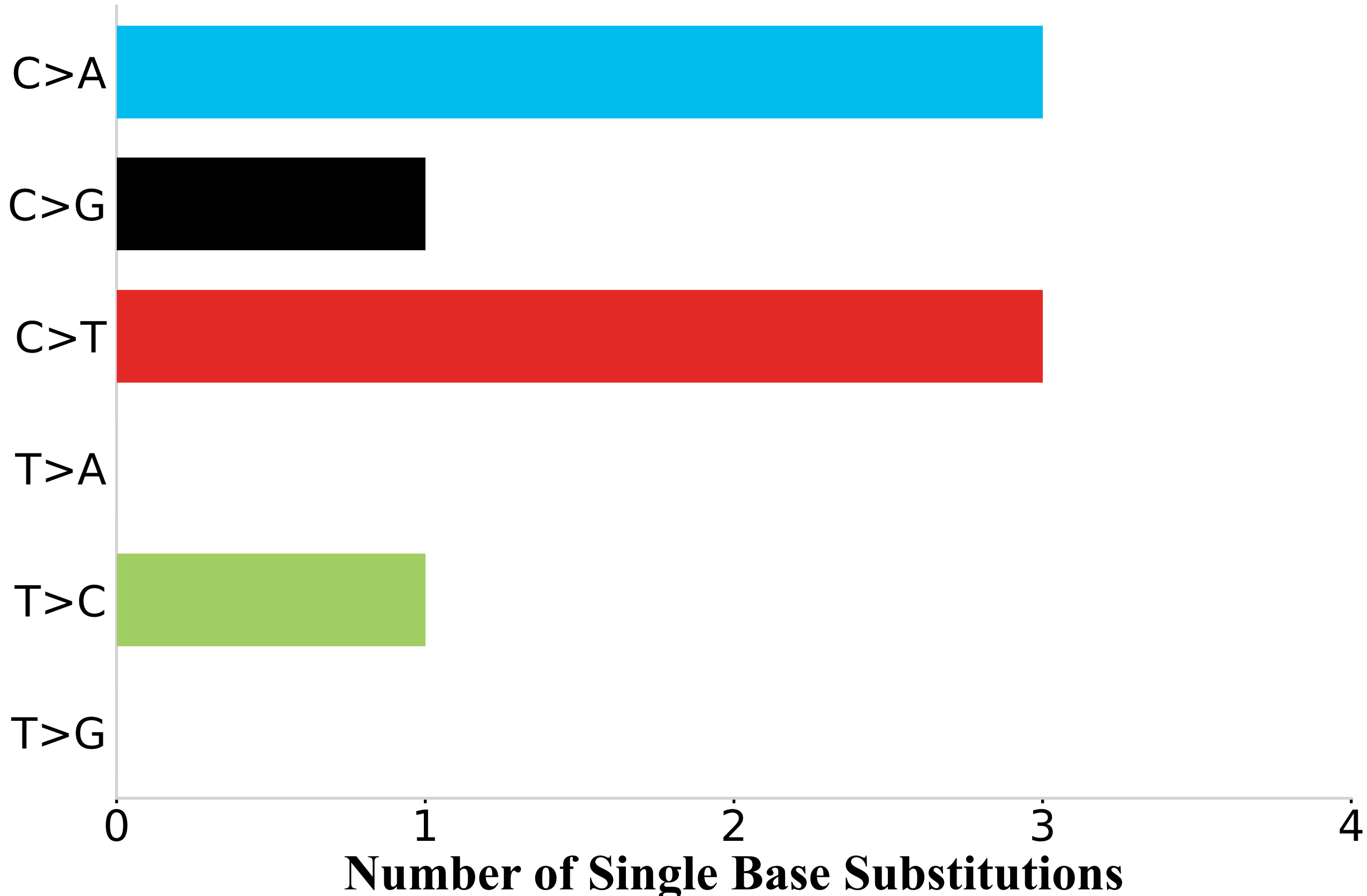
P-0030637-T01-IM6: 5 subs



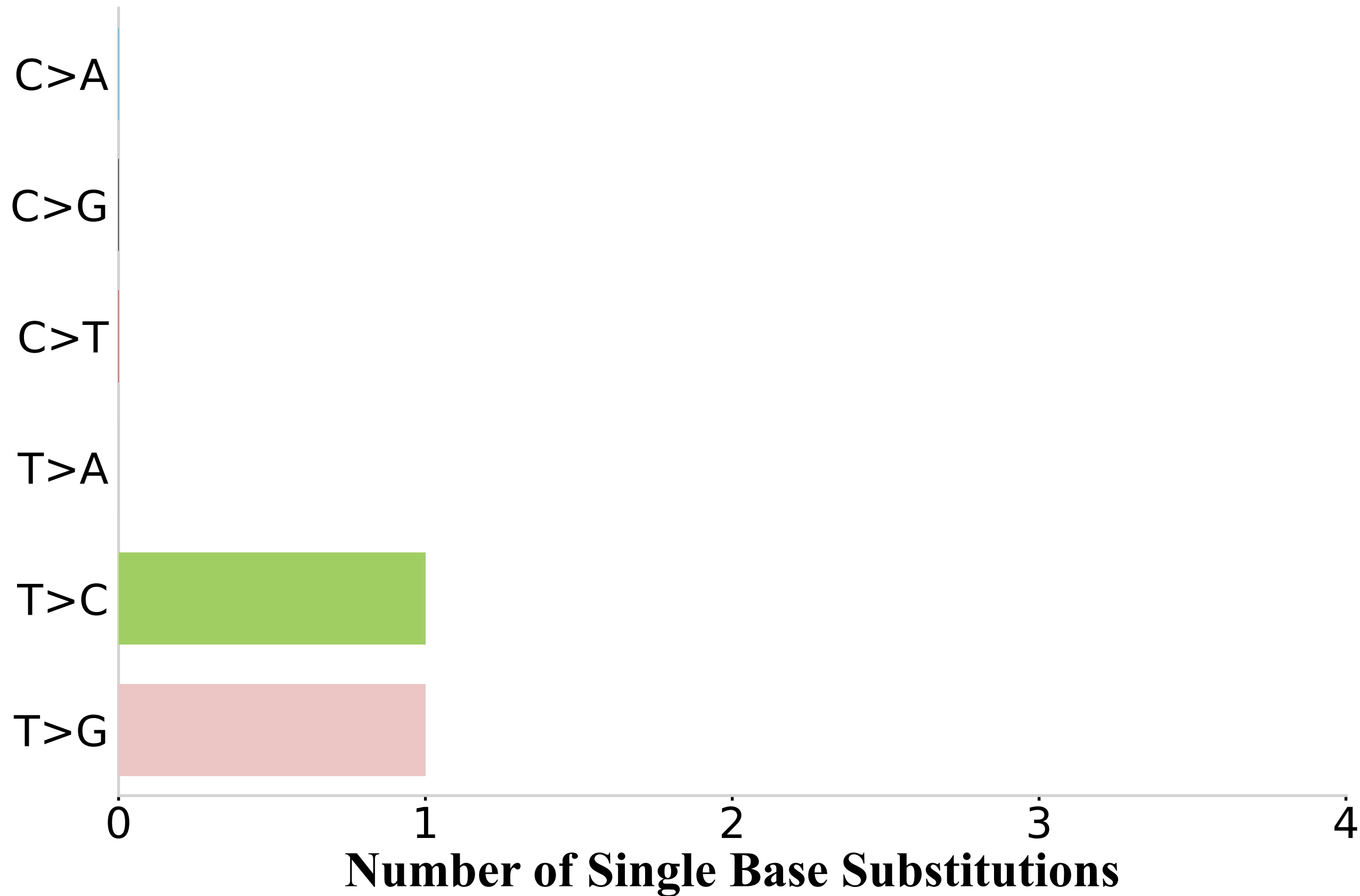
P-0031185-T02-IM6: 6 subs



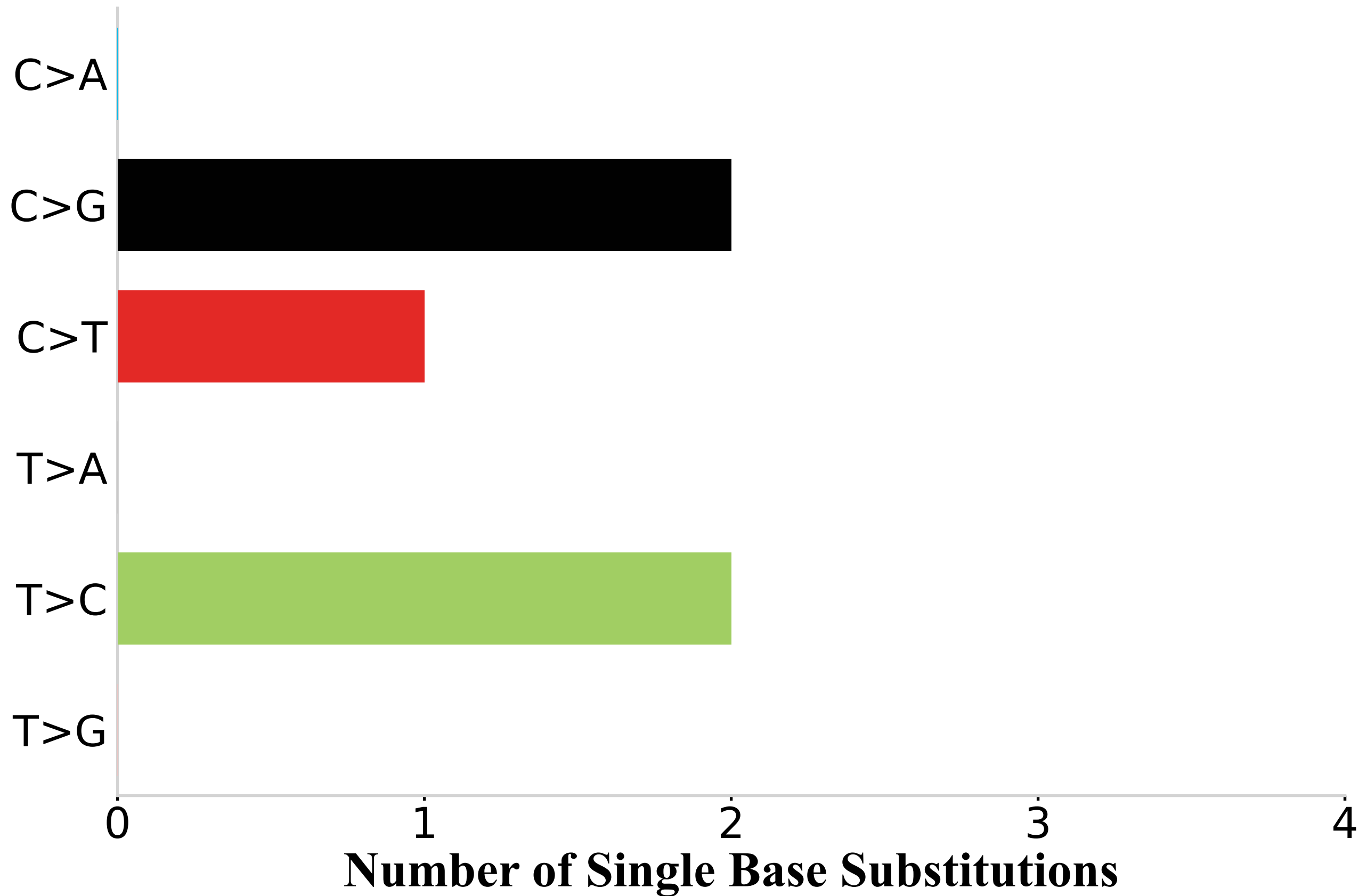
P-0031217-T01-IM6: 8 subs



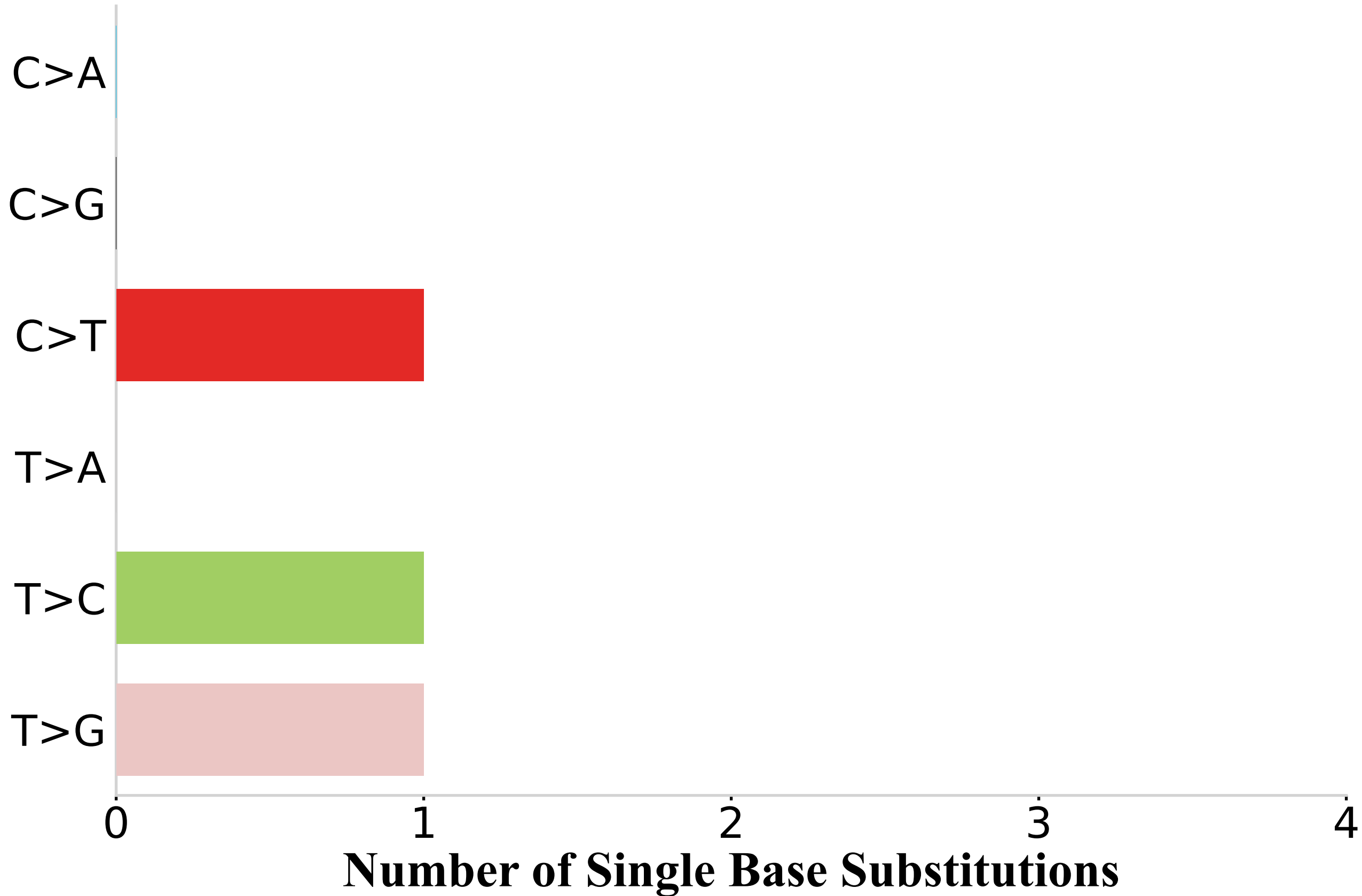
P-0031234-T01-IM6: 2 subs



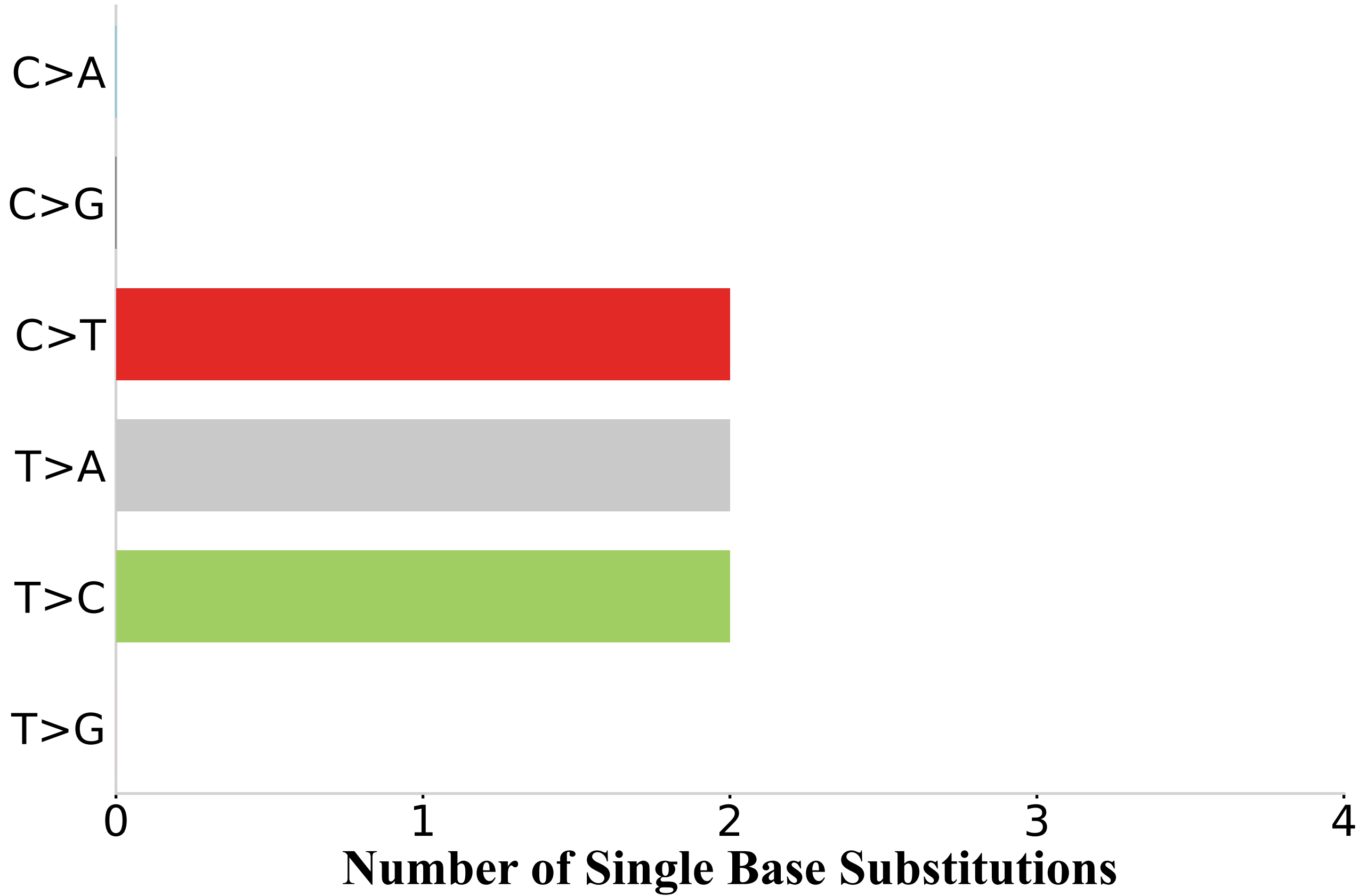
P-0031239-T01-IM6: 5 subs



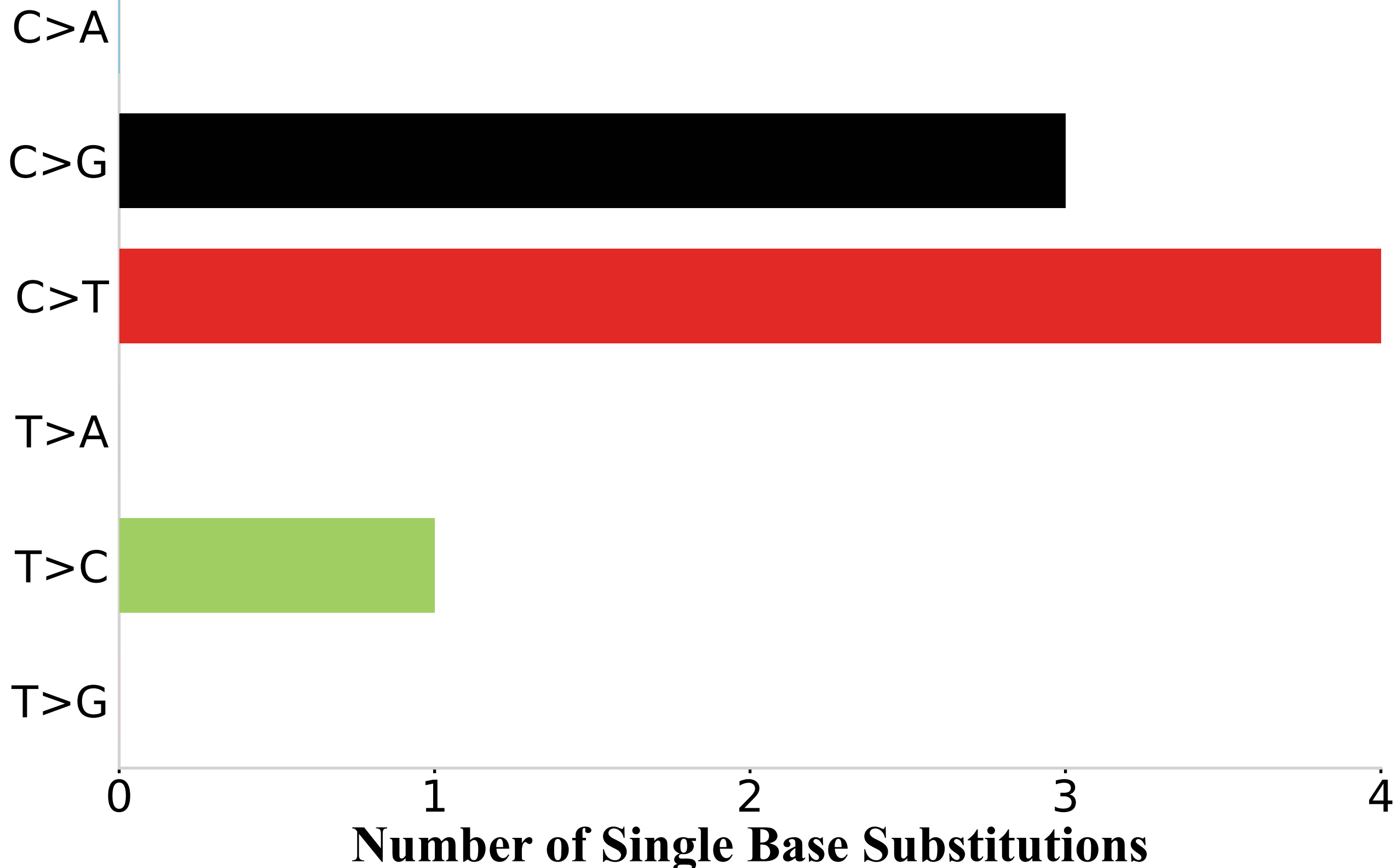
P-0031430-T01-IM6: 3 subs



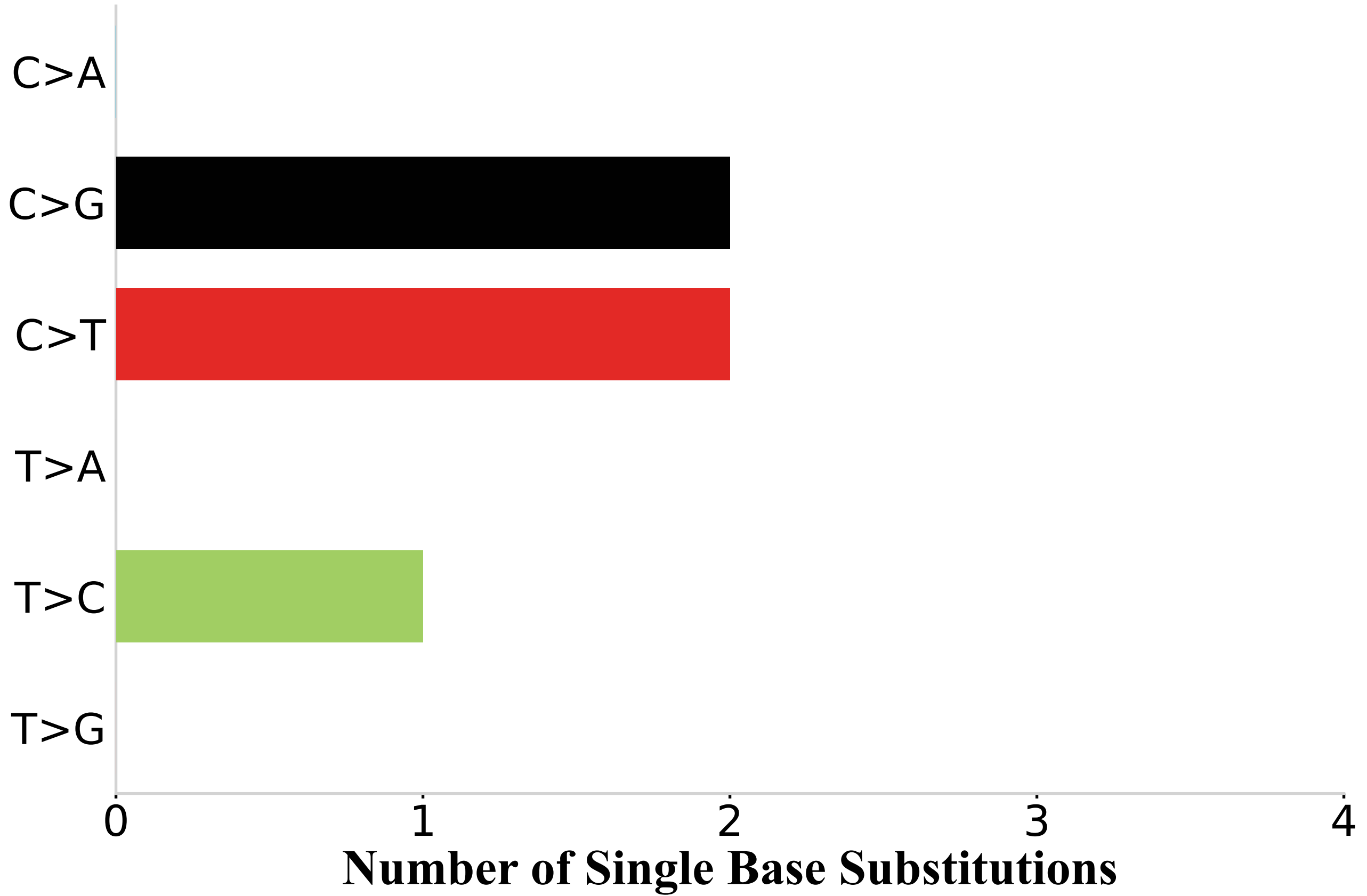
P-0031611-T01-IM6: 6 subs



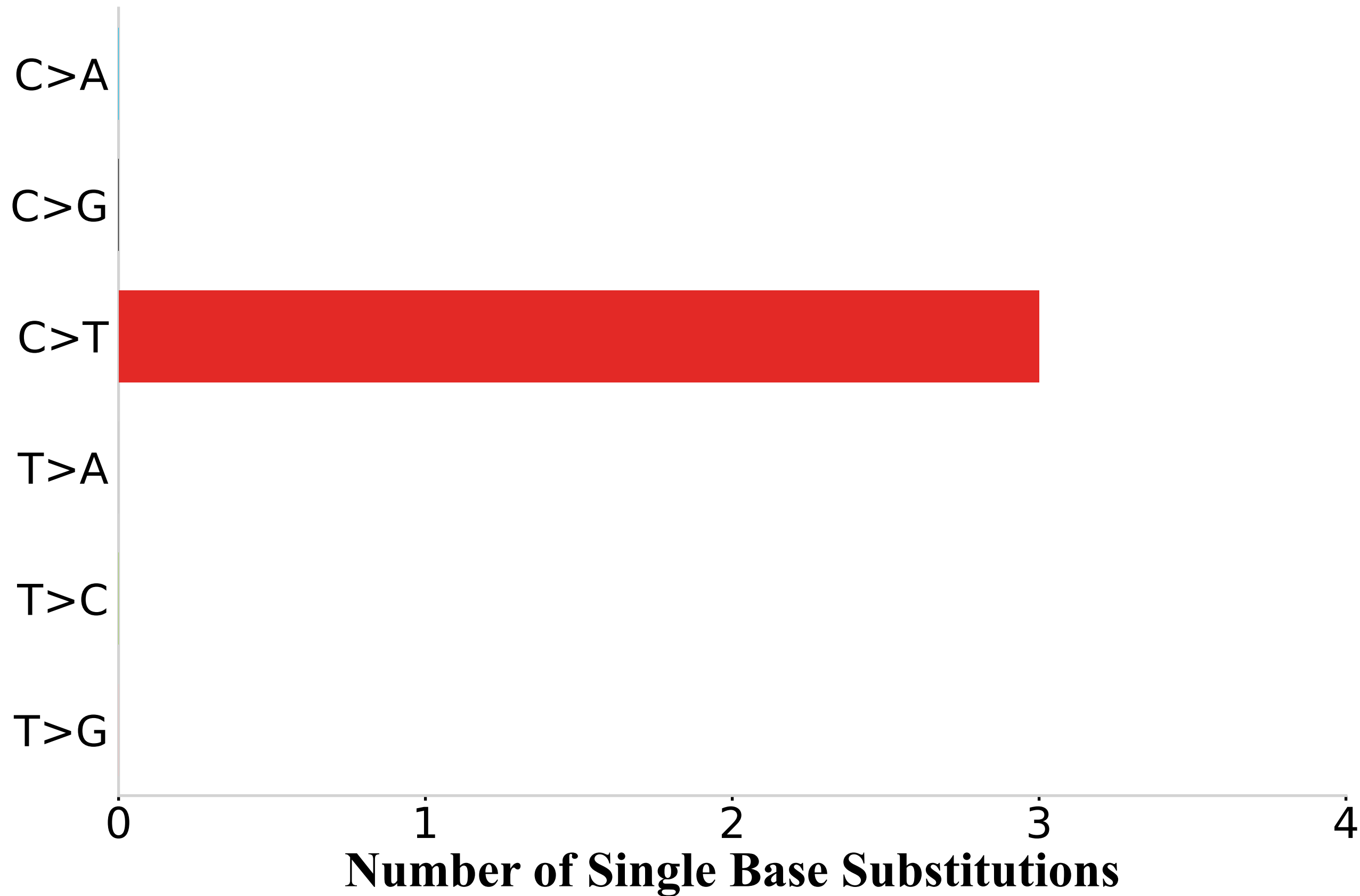
P-0031615-T01-IM6: 8 subs



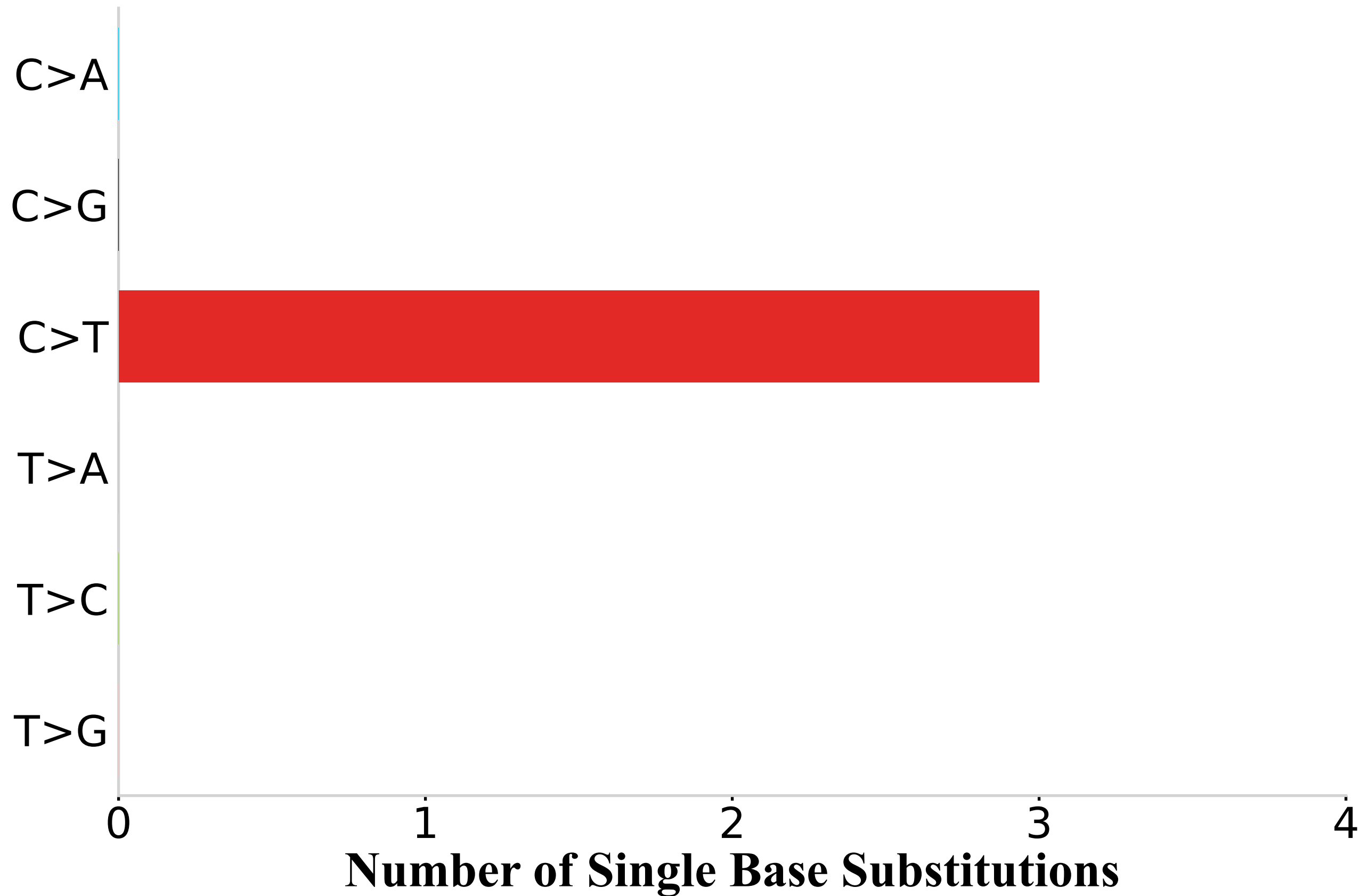
P-0031616-T01-IM6: 5 subs



P-0031759-T01-IM6: 3 subs



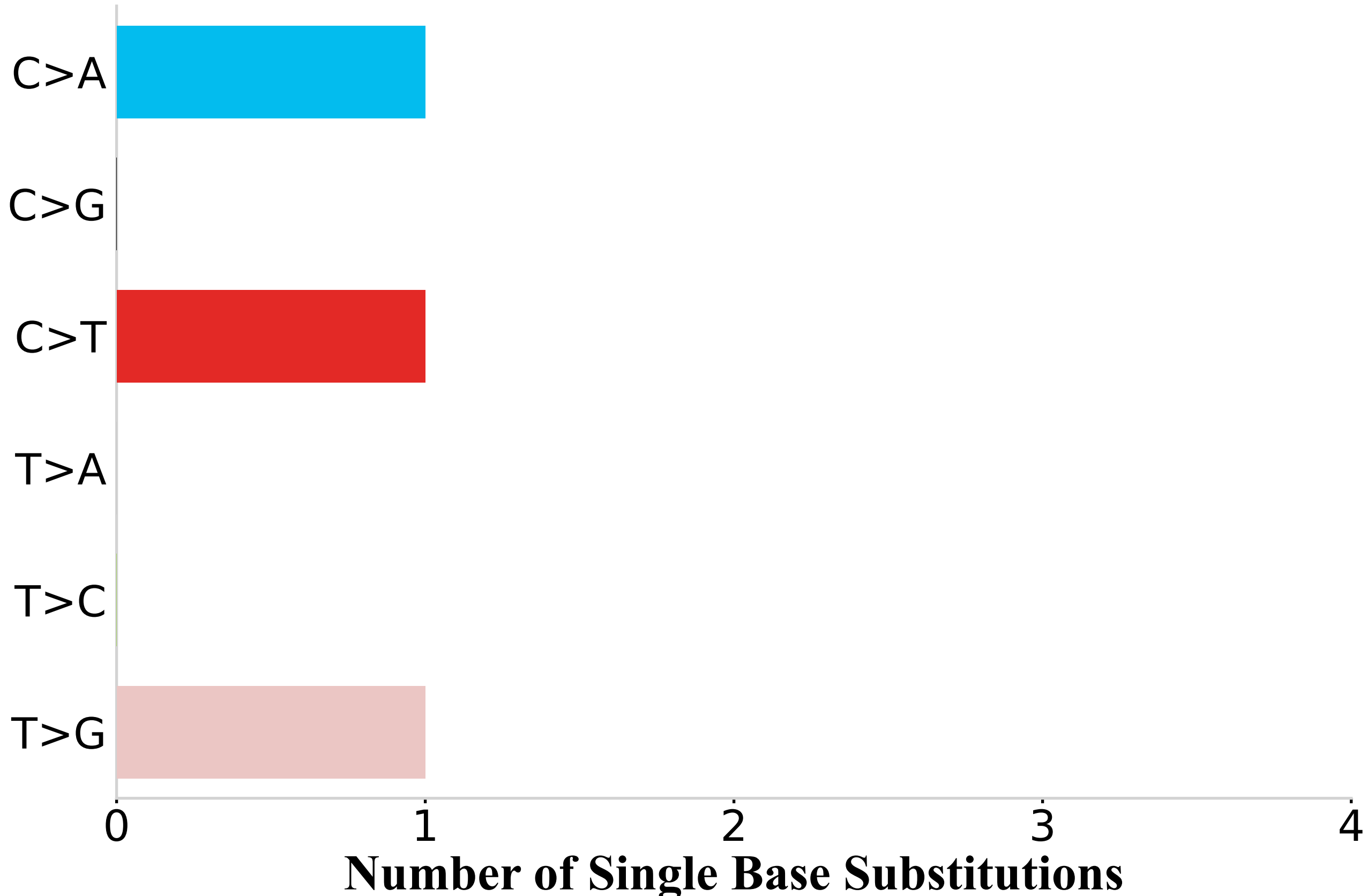
P-0031850-T01-IM6: 3 subs



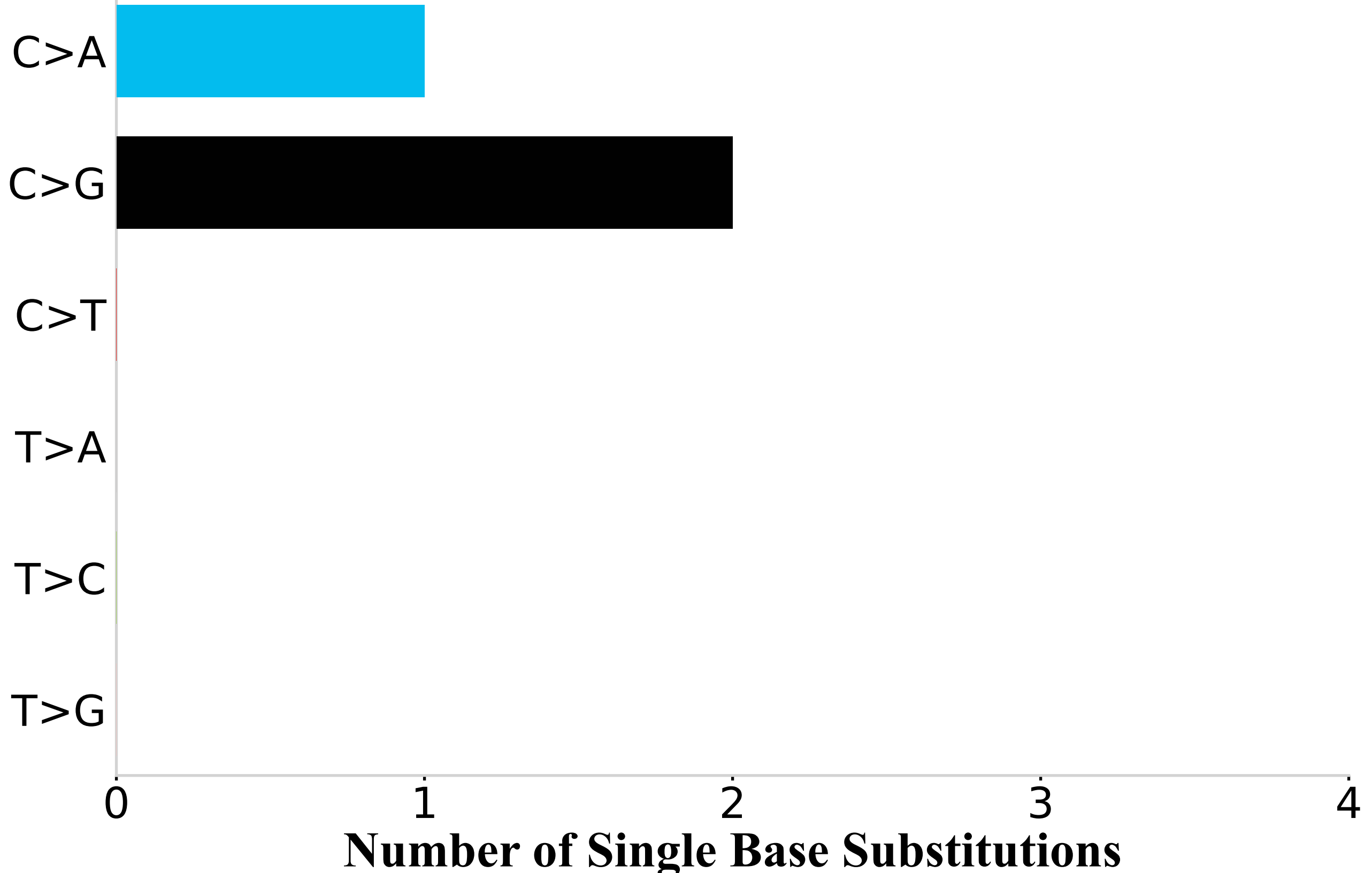
P-0031971-T01-IM6: 1 subs



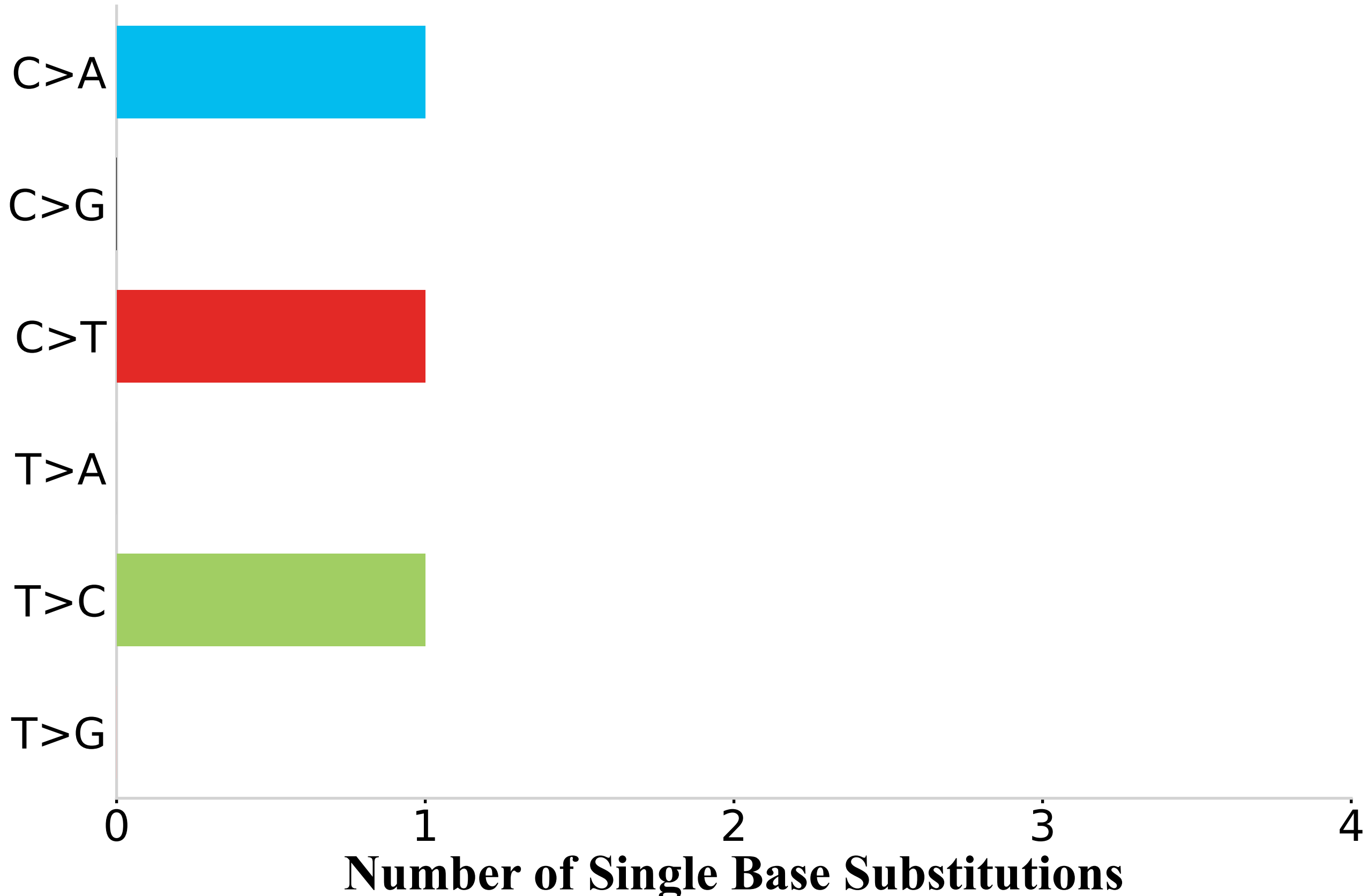
P-0032189-T01-IM6: 3 subs



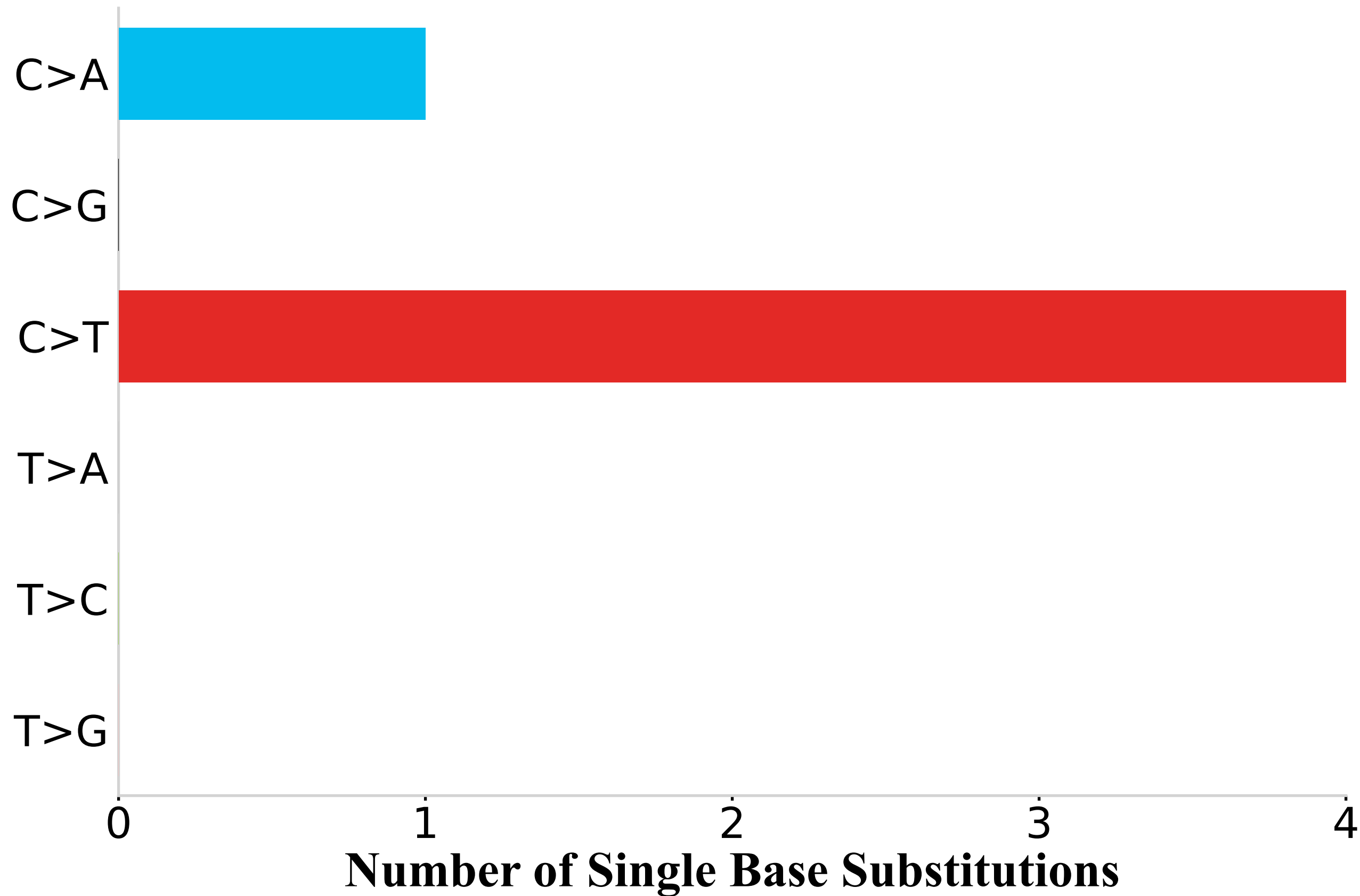
P-0032357-T01-IM6: 3 subs



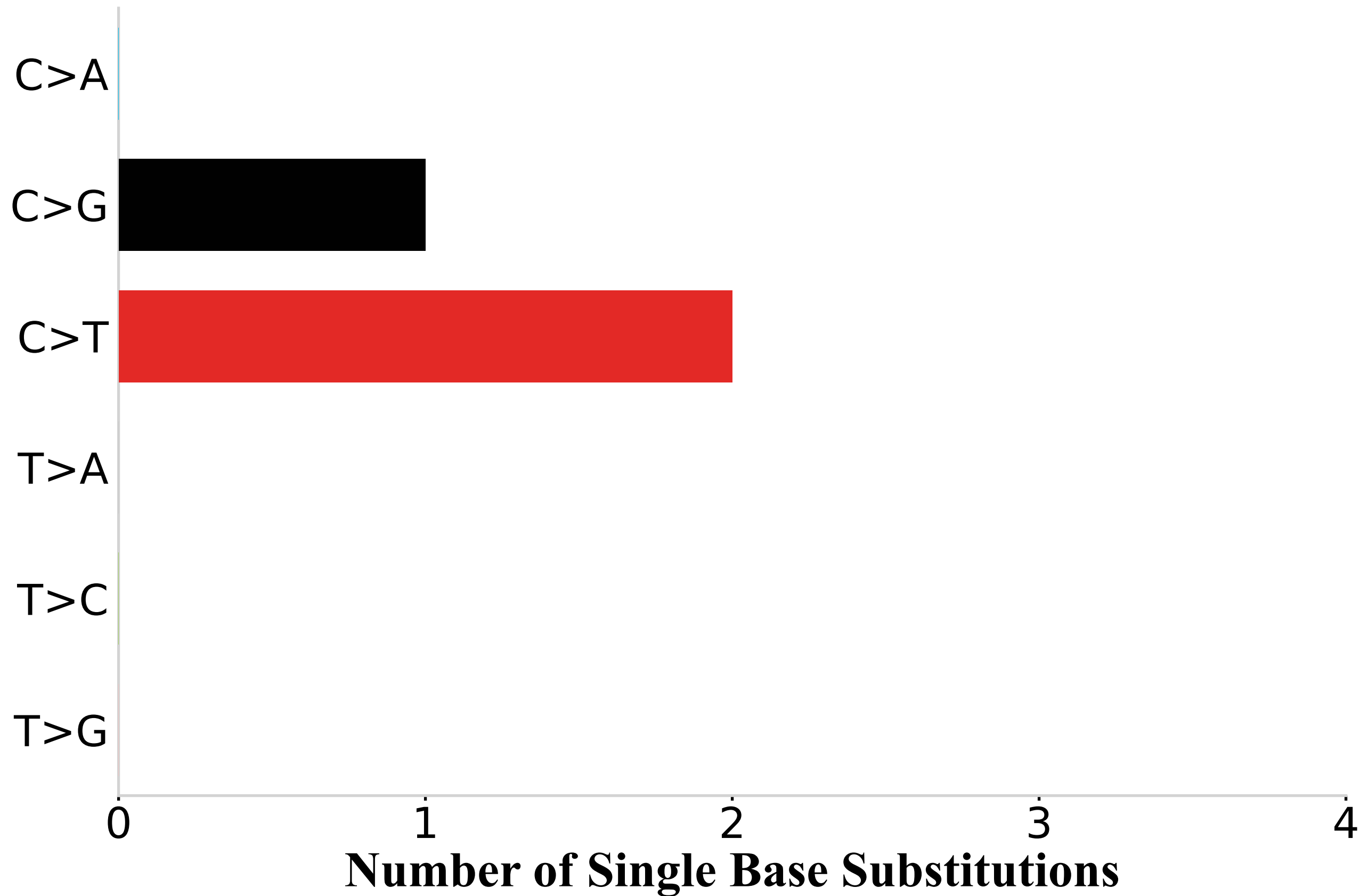
P-0032437-T01-IM6: 3 subs



P-0032446-T01-IM6: 5 subs



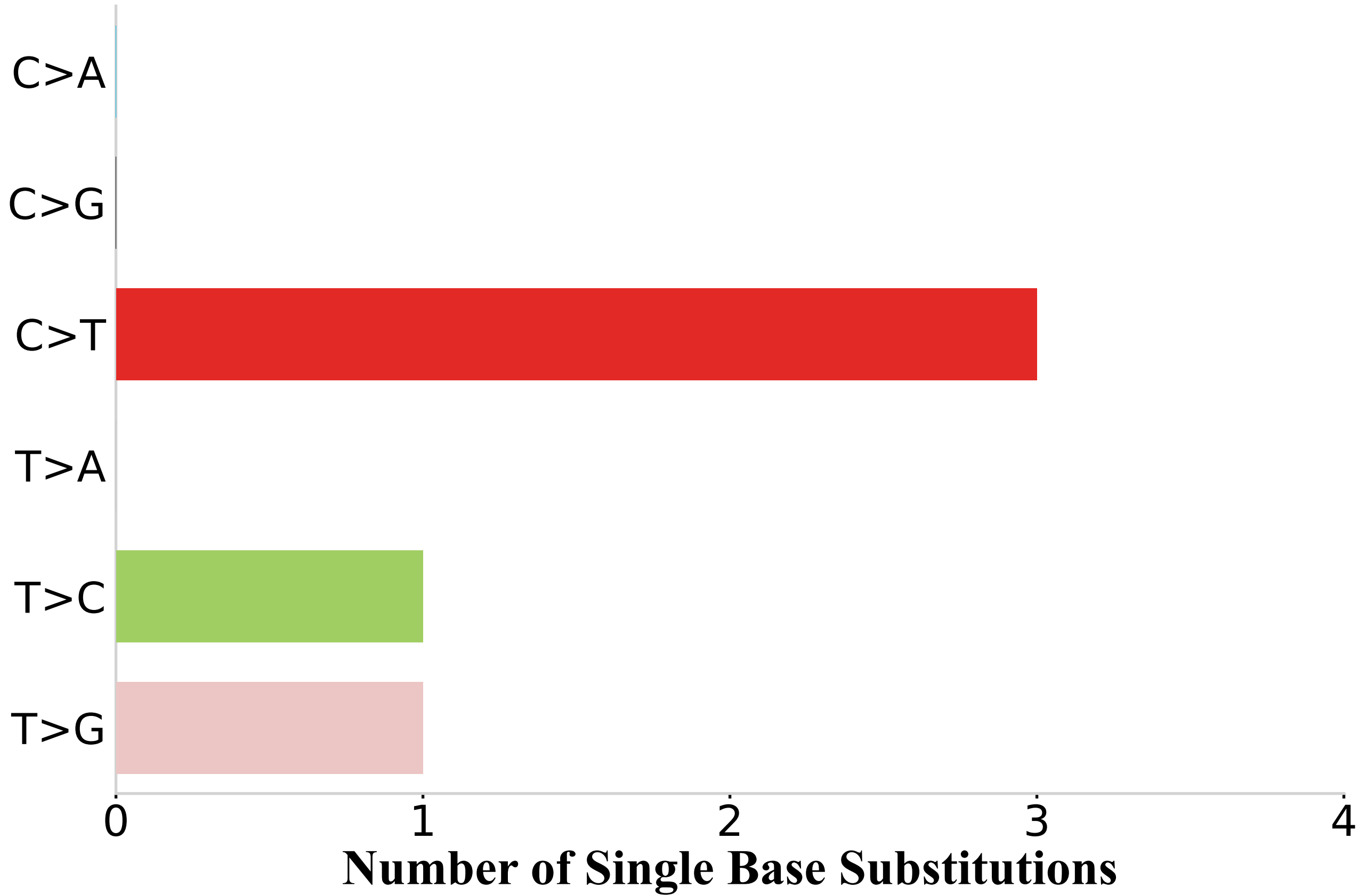
P-0032458-T01-IM6: 3 subs



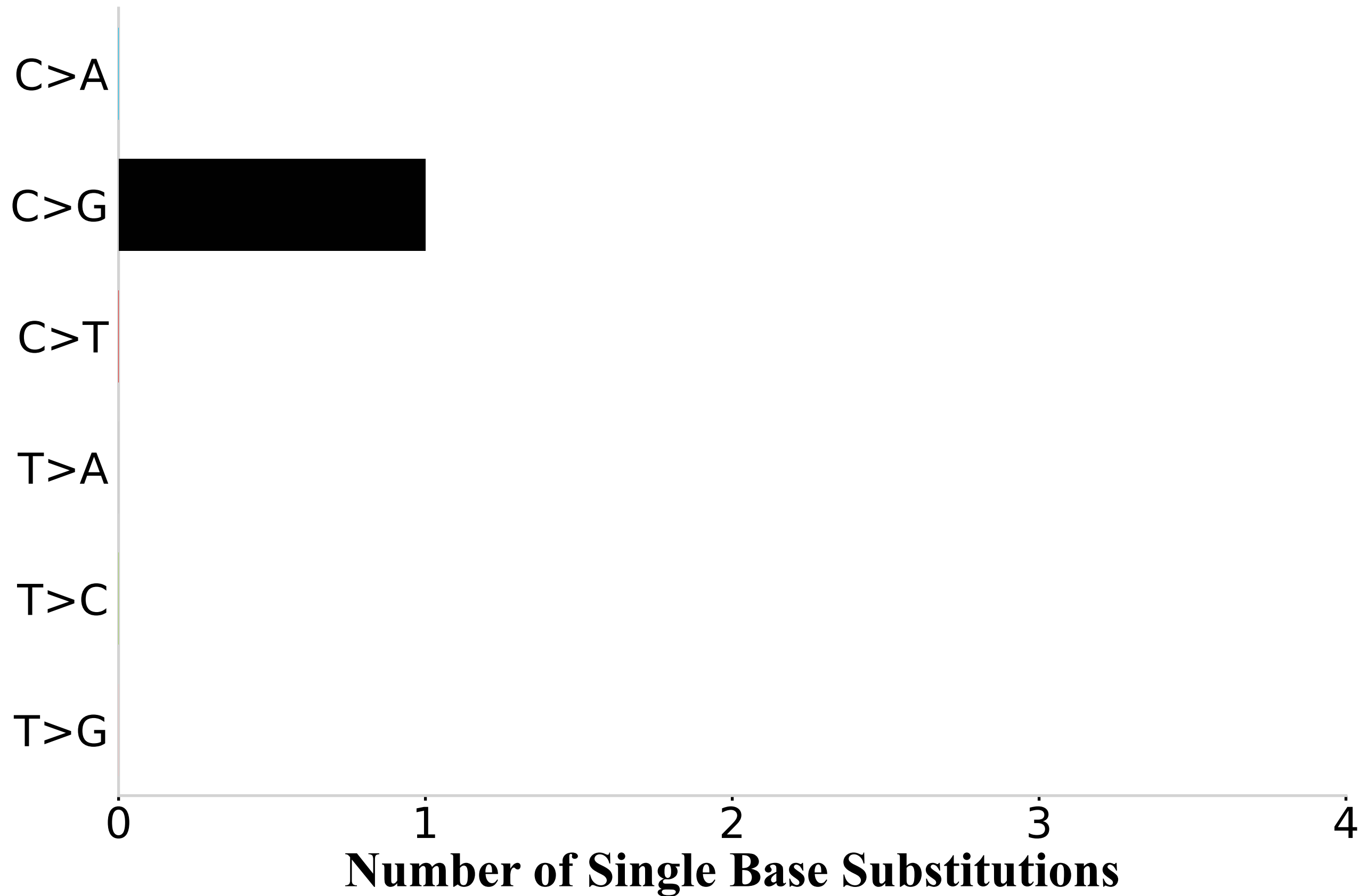
P-0032543-T01-IM6: 2 subs



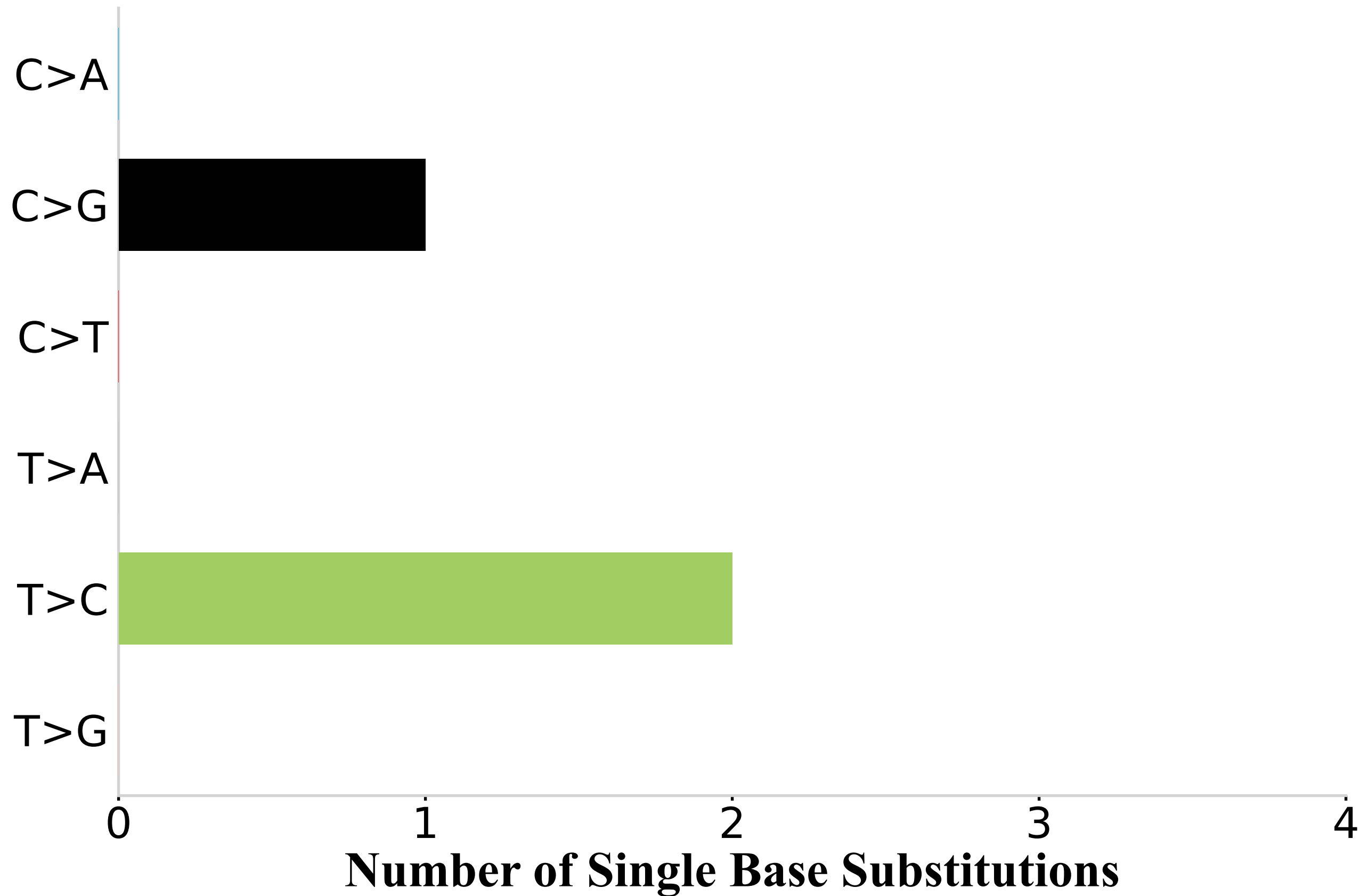
P-0032606-T01-IM6: 5 subs



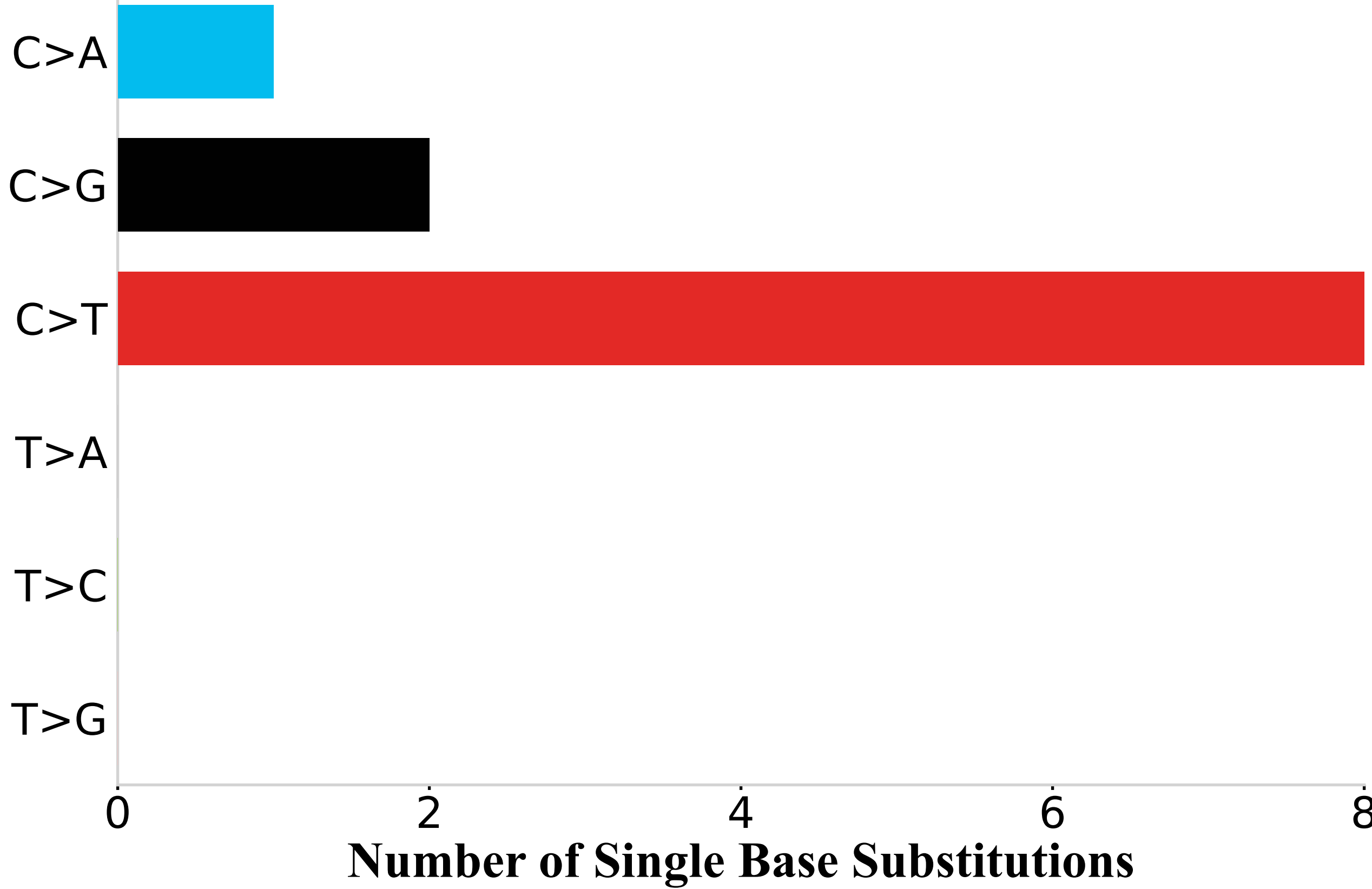
P-0032656-T01-IM6: 1 subs



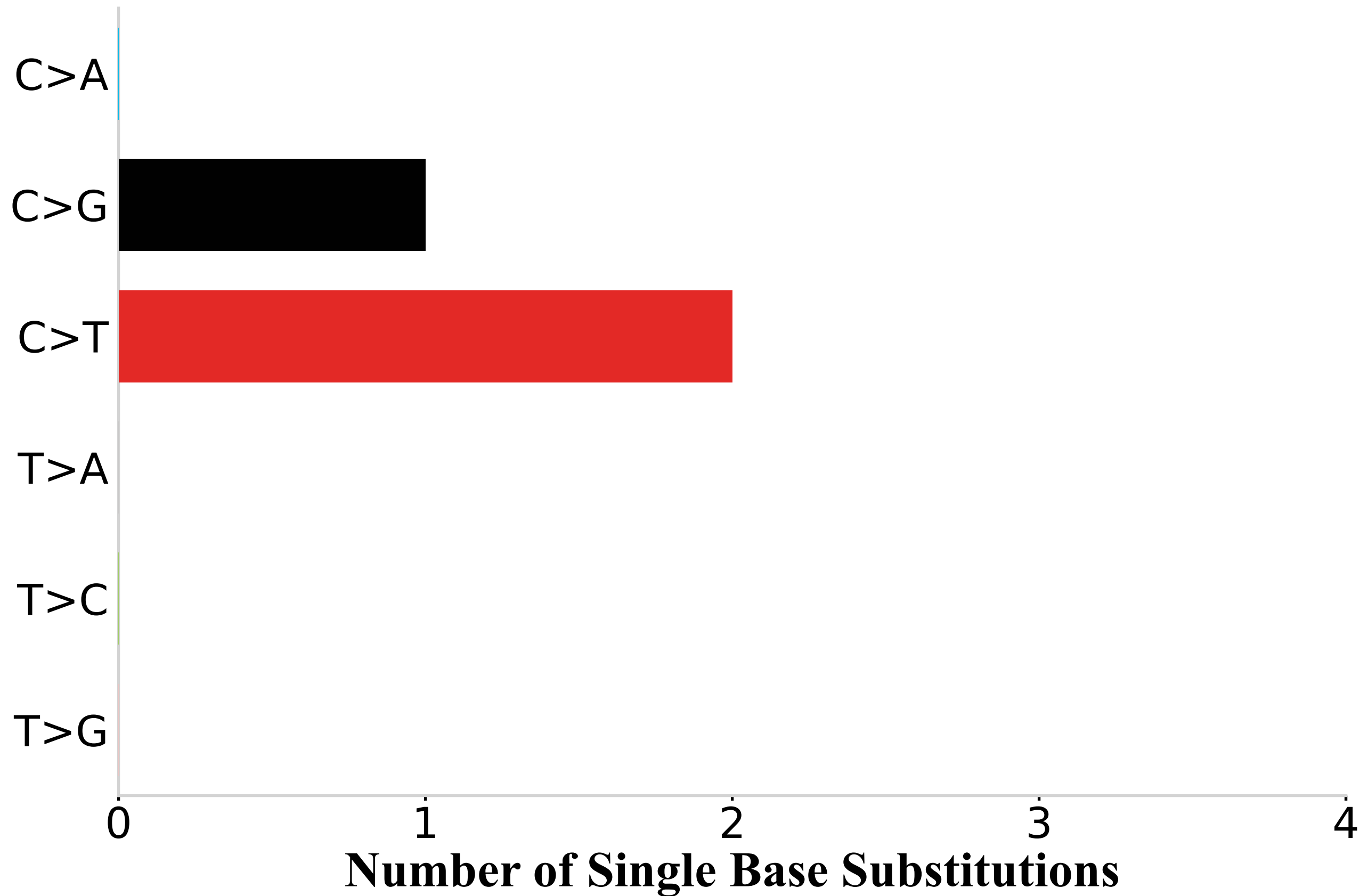
P-0032681-T01-IM6: 3 subs



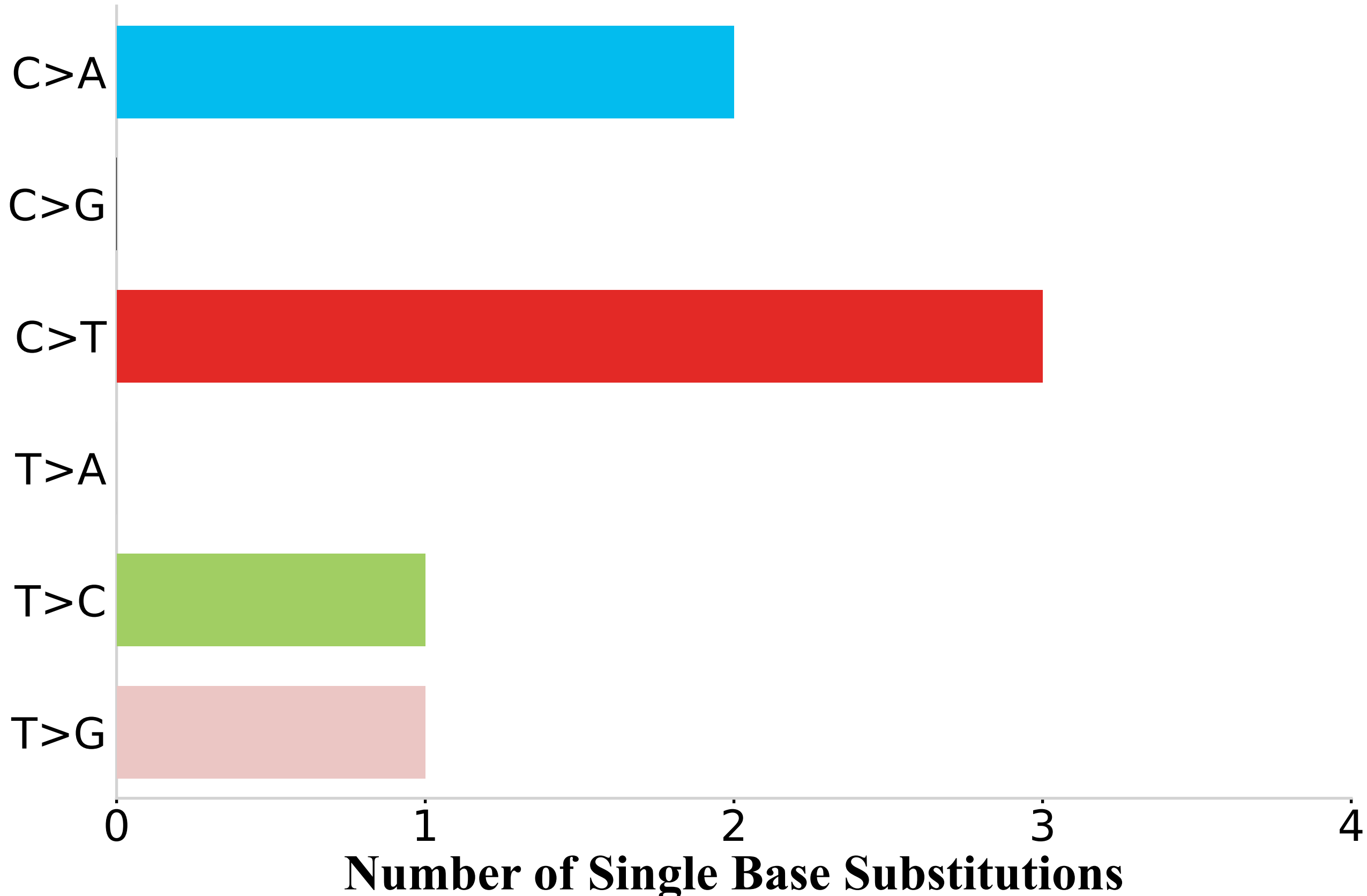
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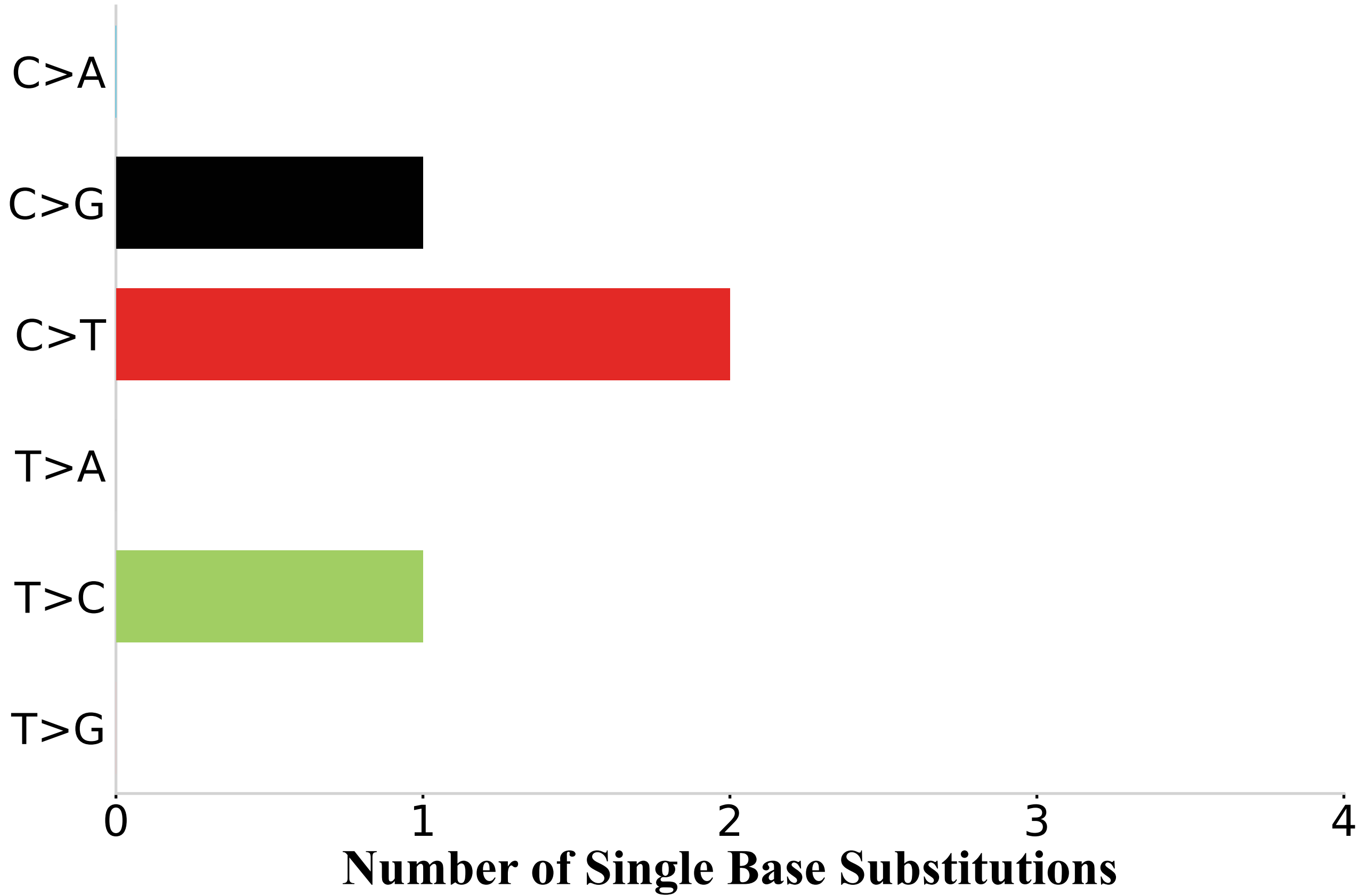
P-0033083-T01-IM6: 3 subs



P-0033094-T01-IM6: 7 subs



P-0033119-T01-IM6: 4 subs



P-0033154-T01-IM6: 3 subs

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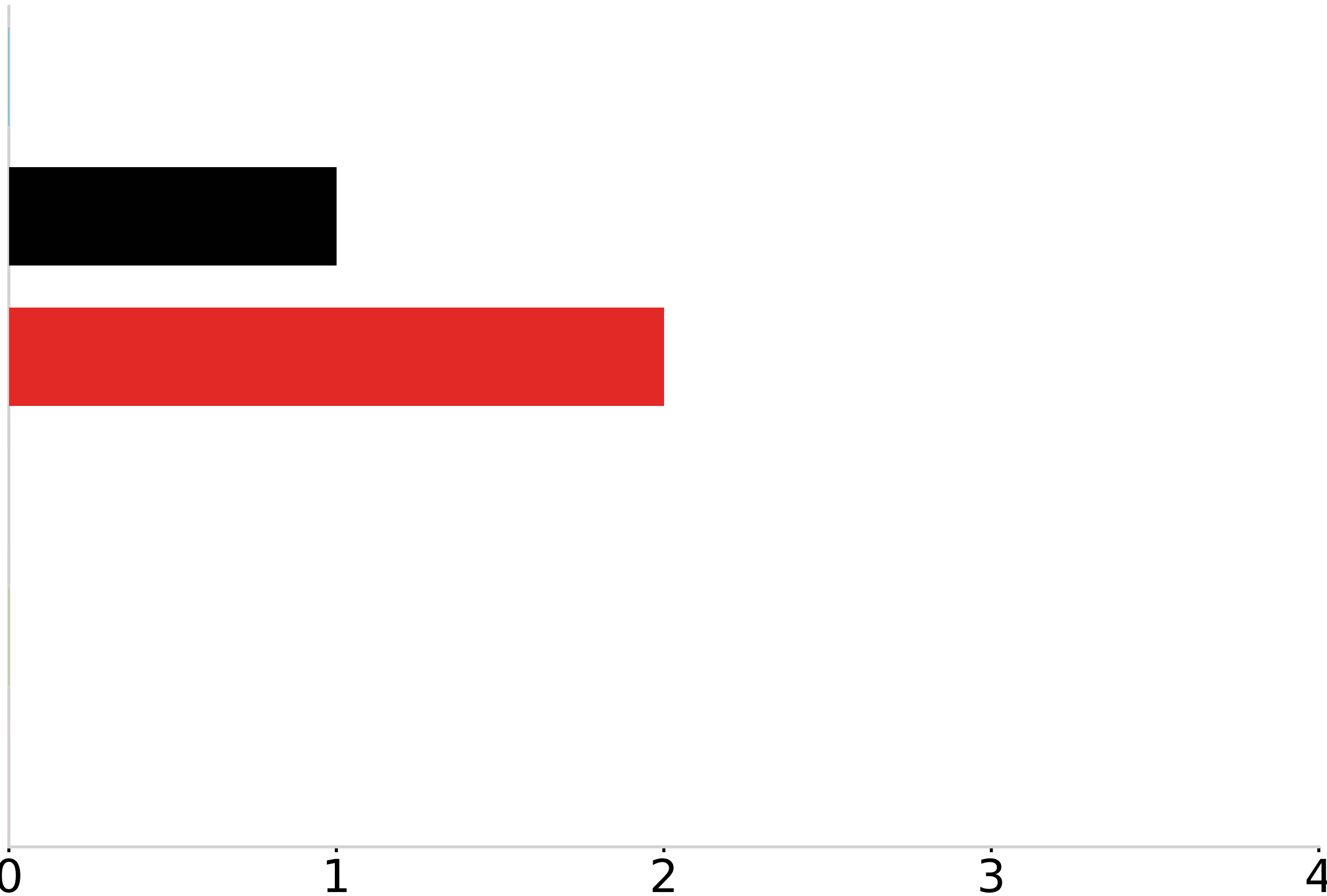
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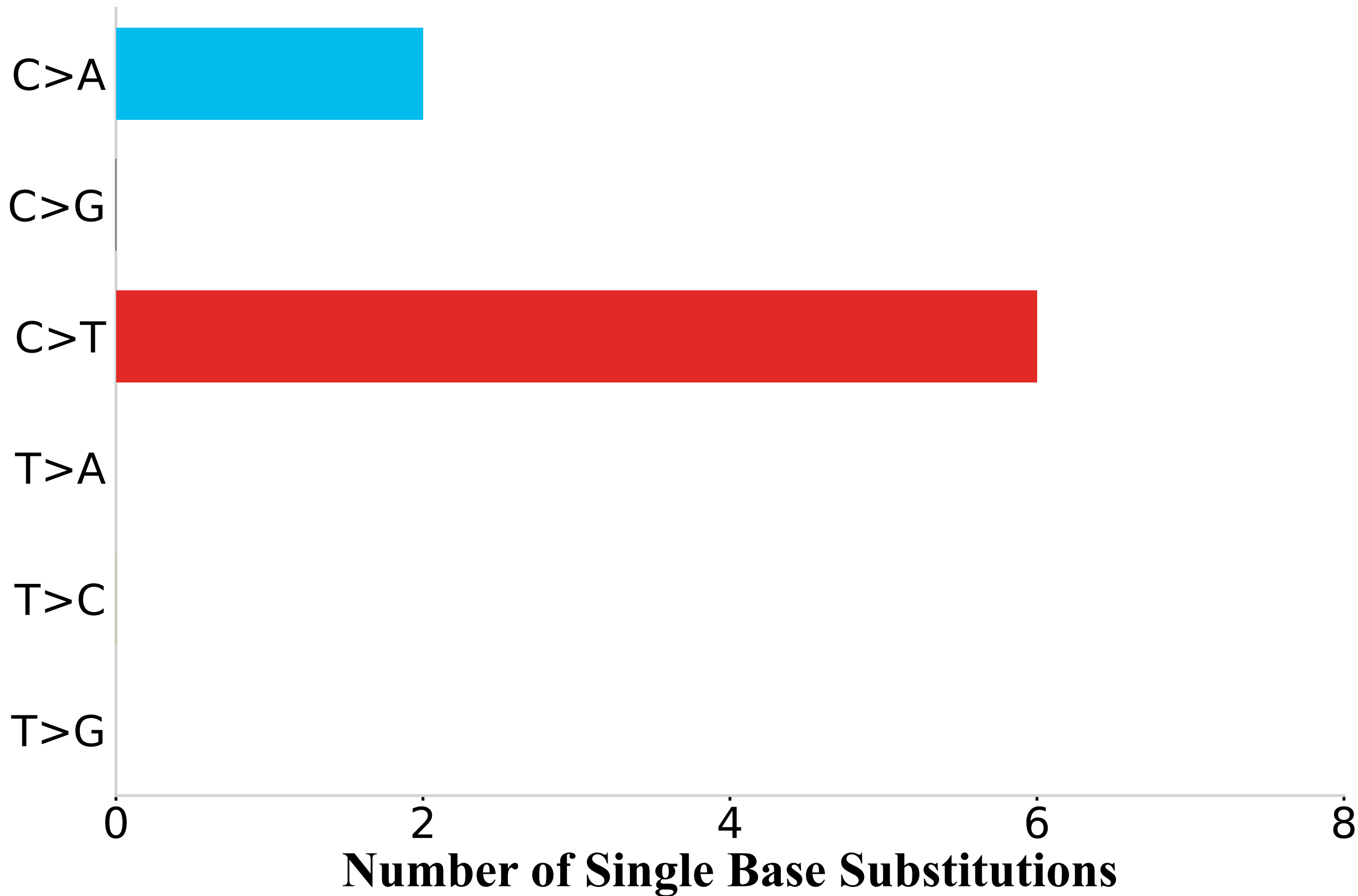
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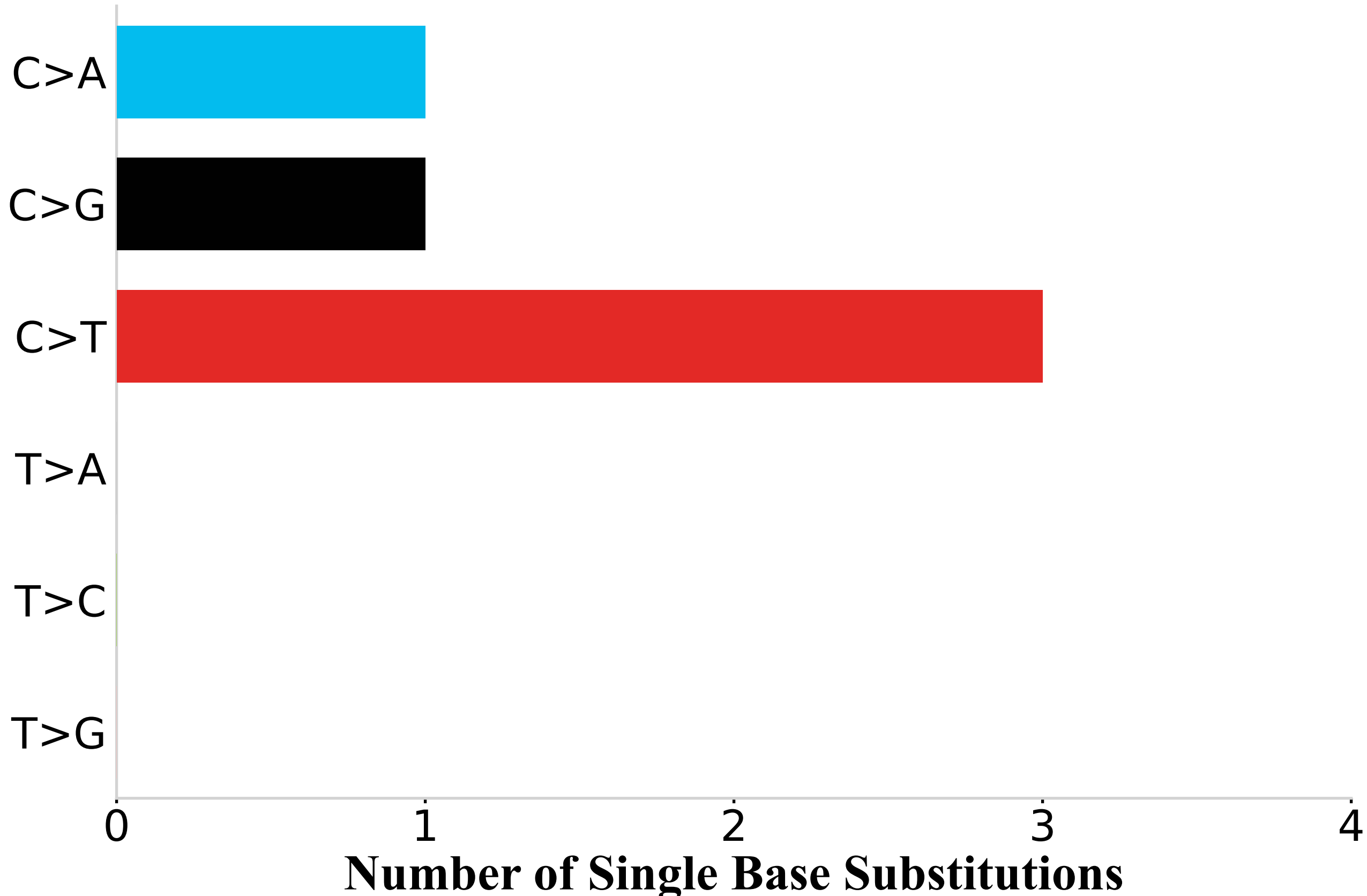


Number of Single Base Substitutions

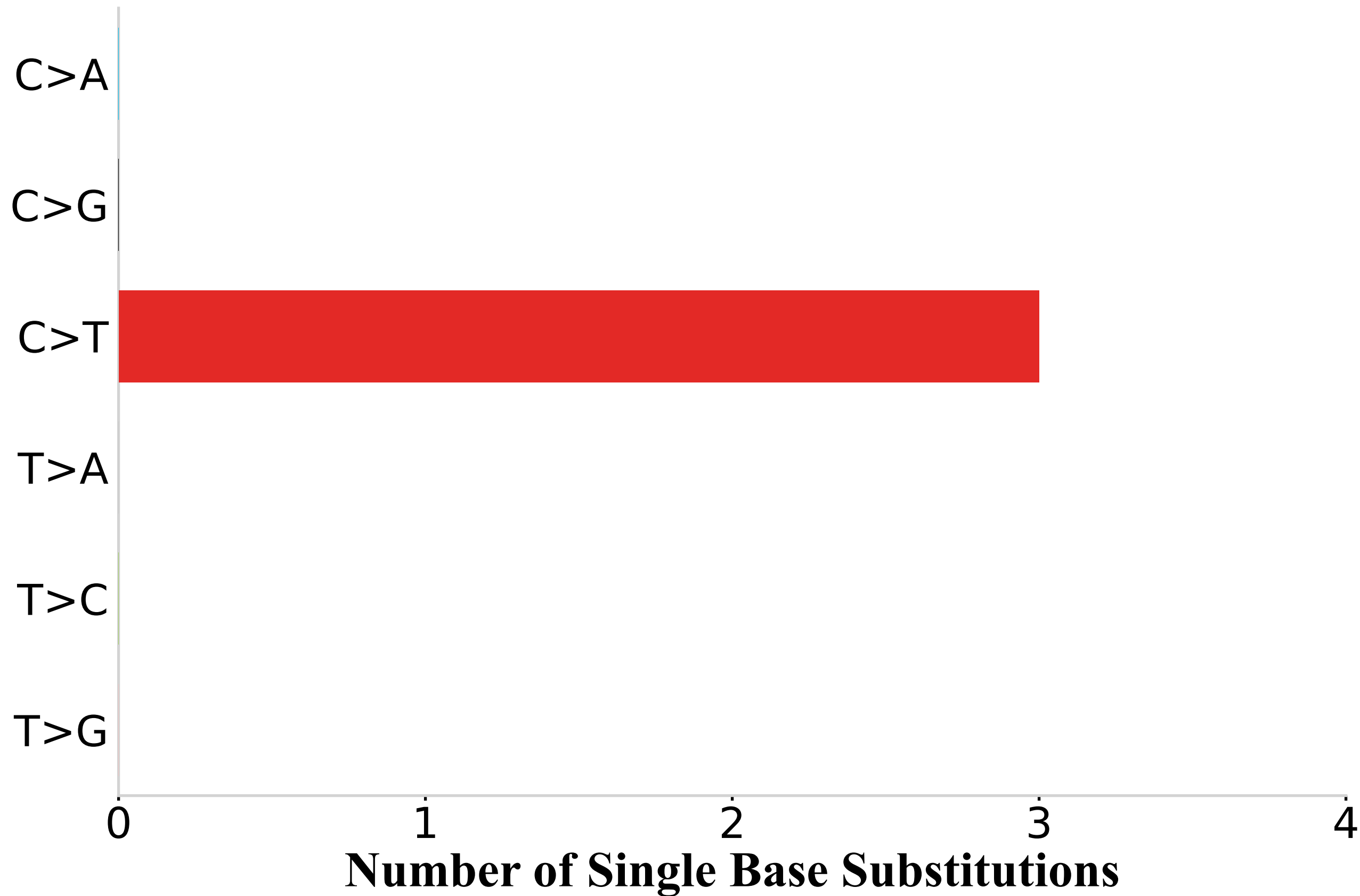
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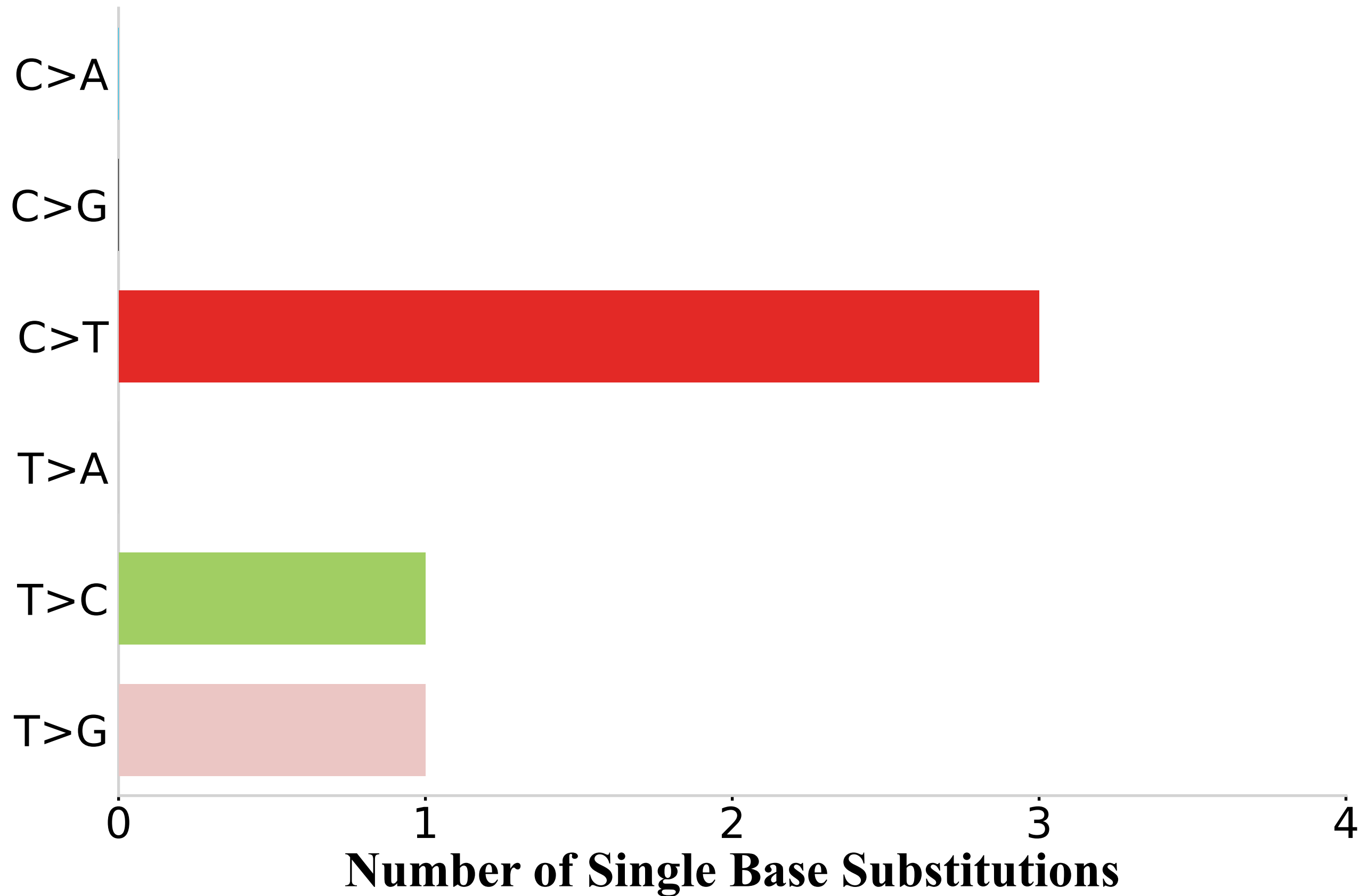
P-0033302-T01-IM6: 5 subs



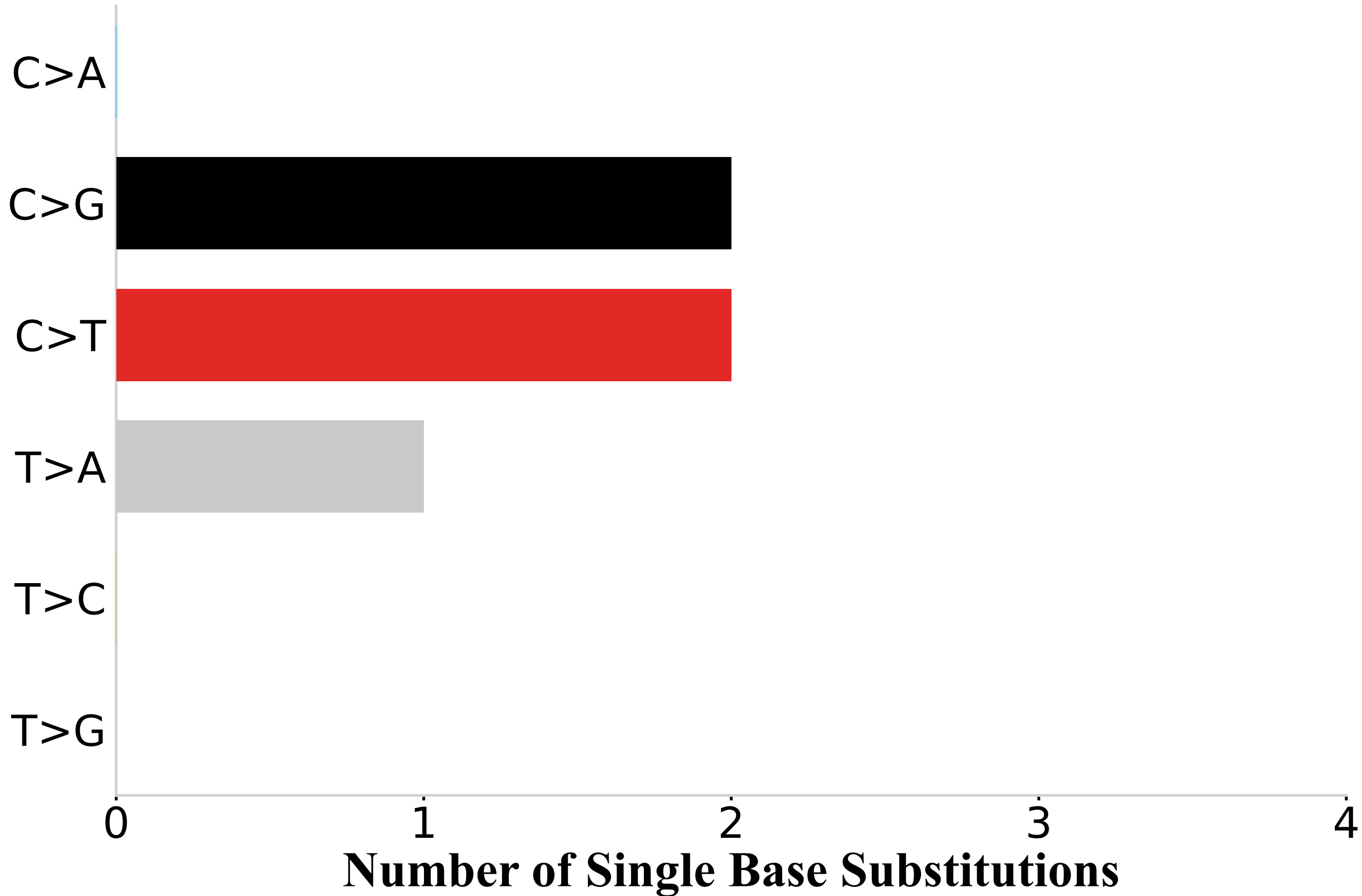
P-0033353-T01-IM6: 3 subs



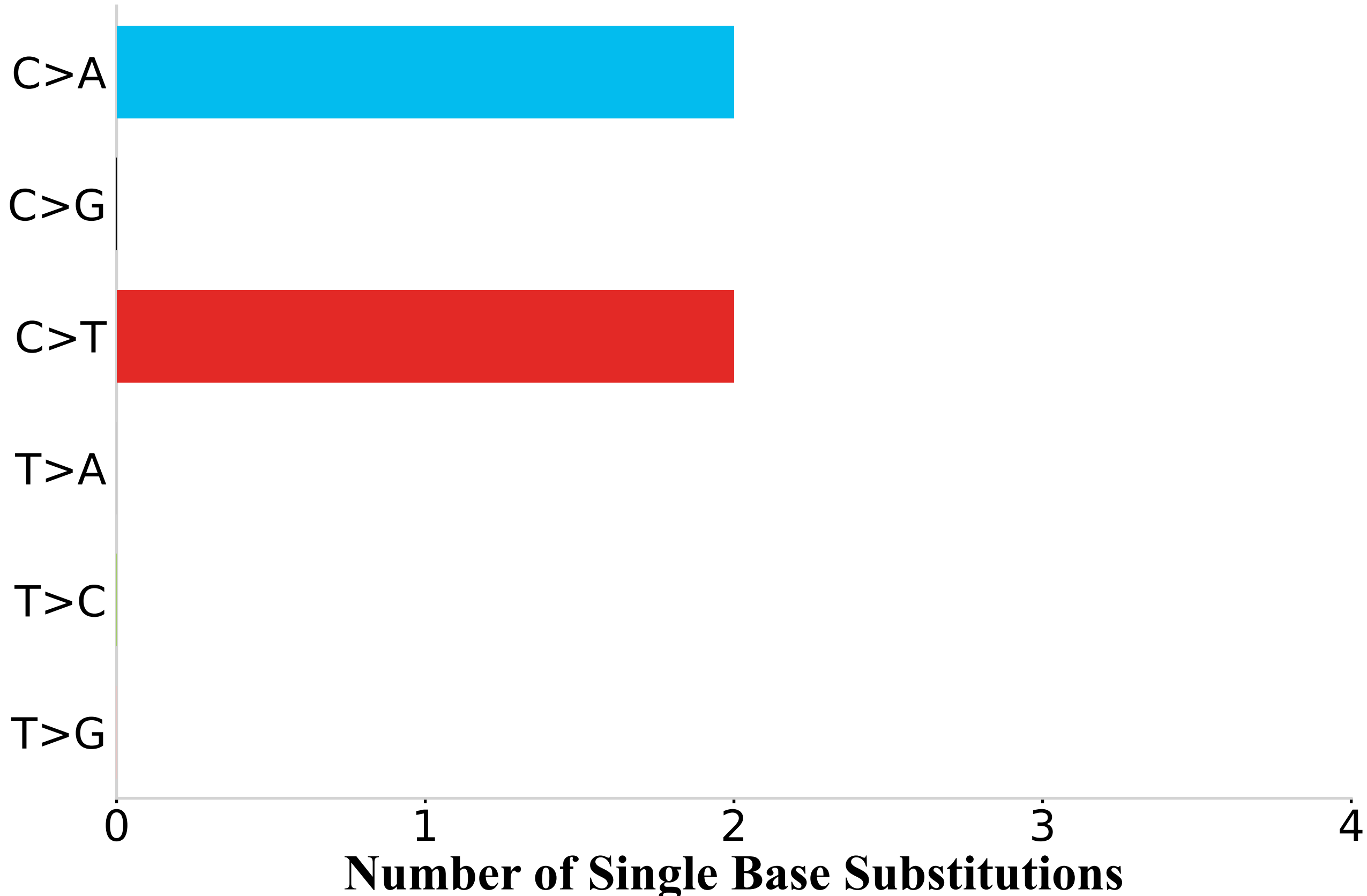
P-0033474-T01-IM6: 5 subs



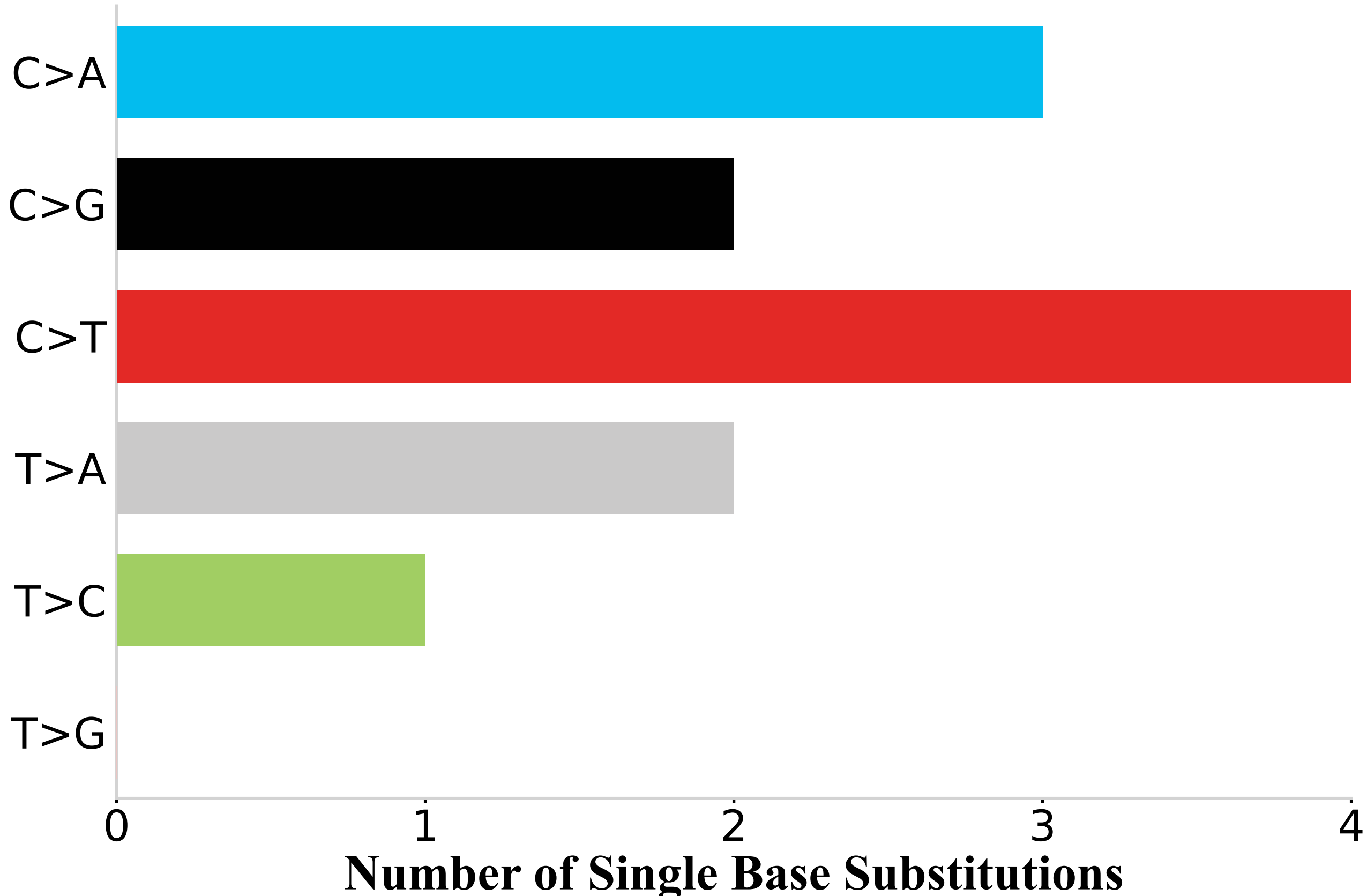
P-0033527-T01-IM6: 5 subs



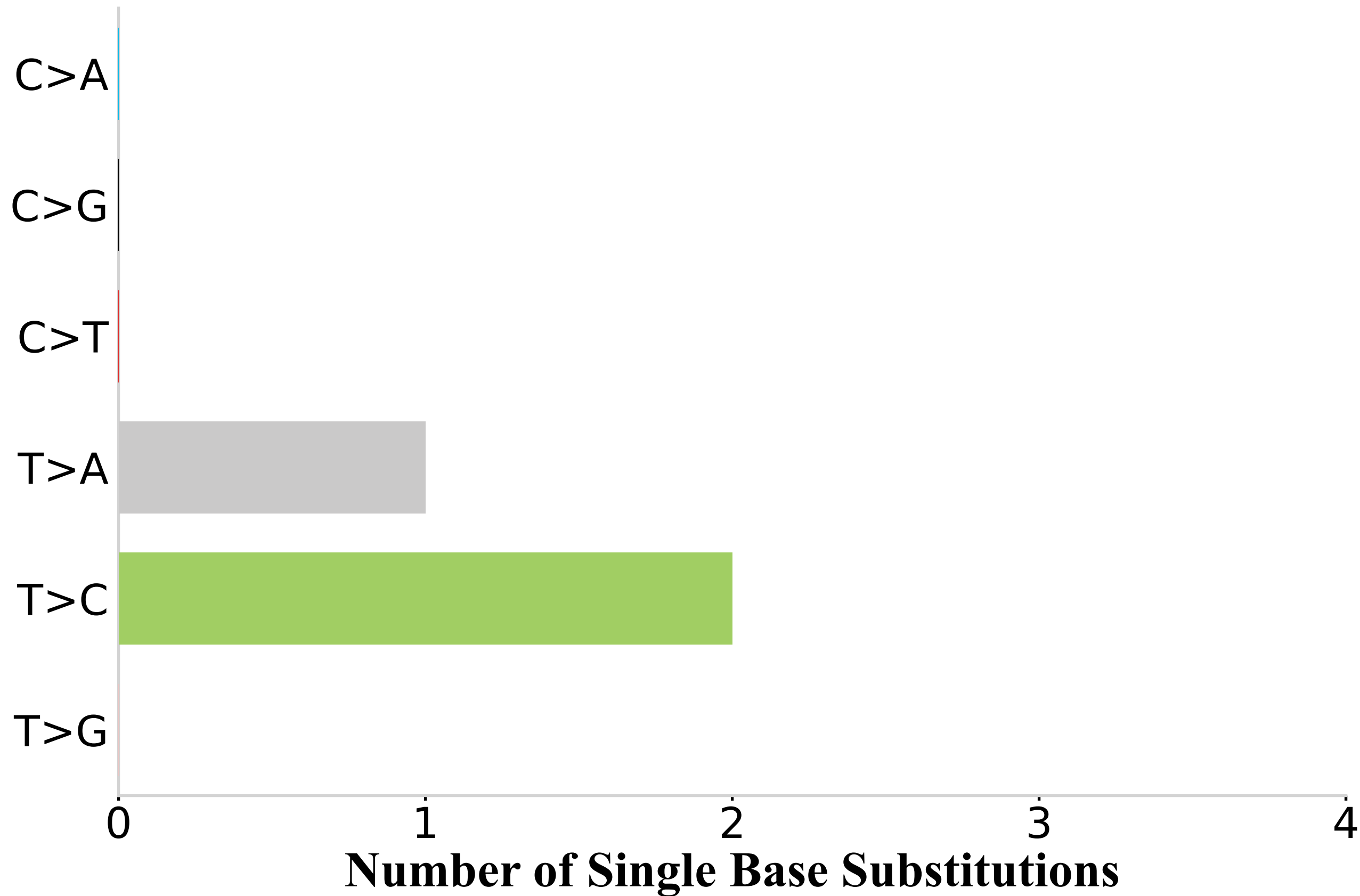
P-0033630-T01-IM6: 4 subs



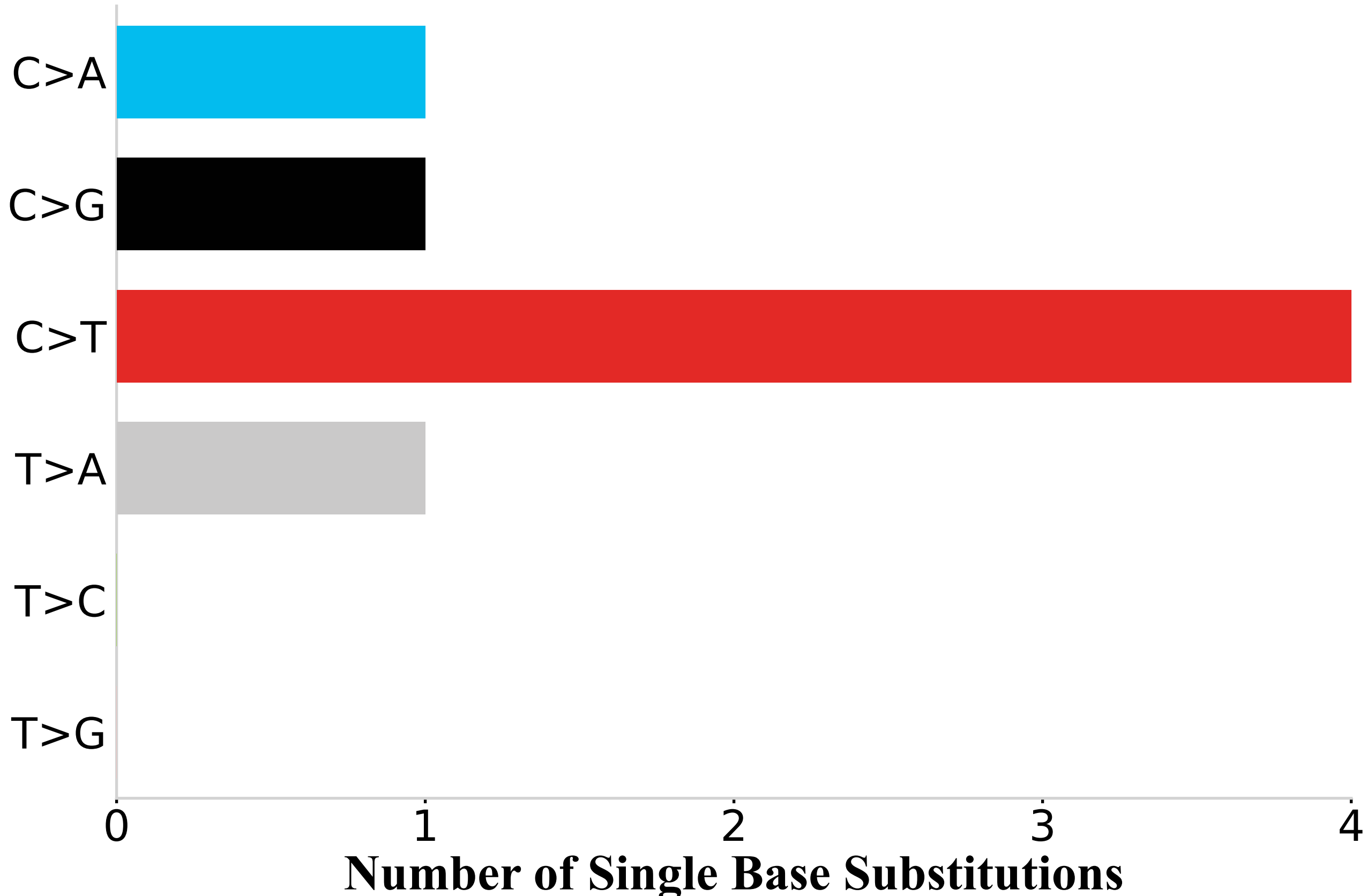
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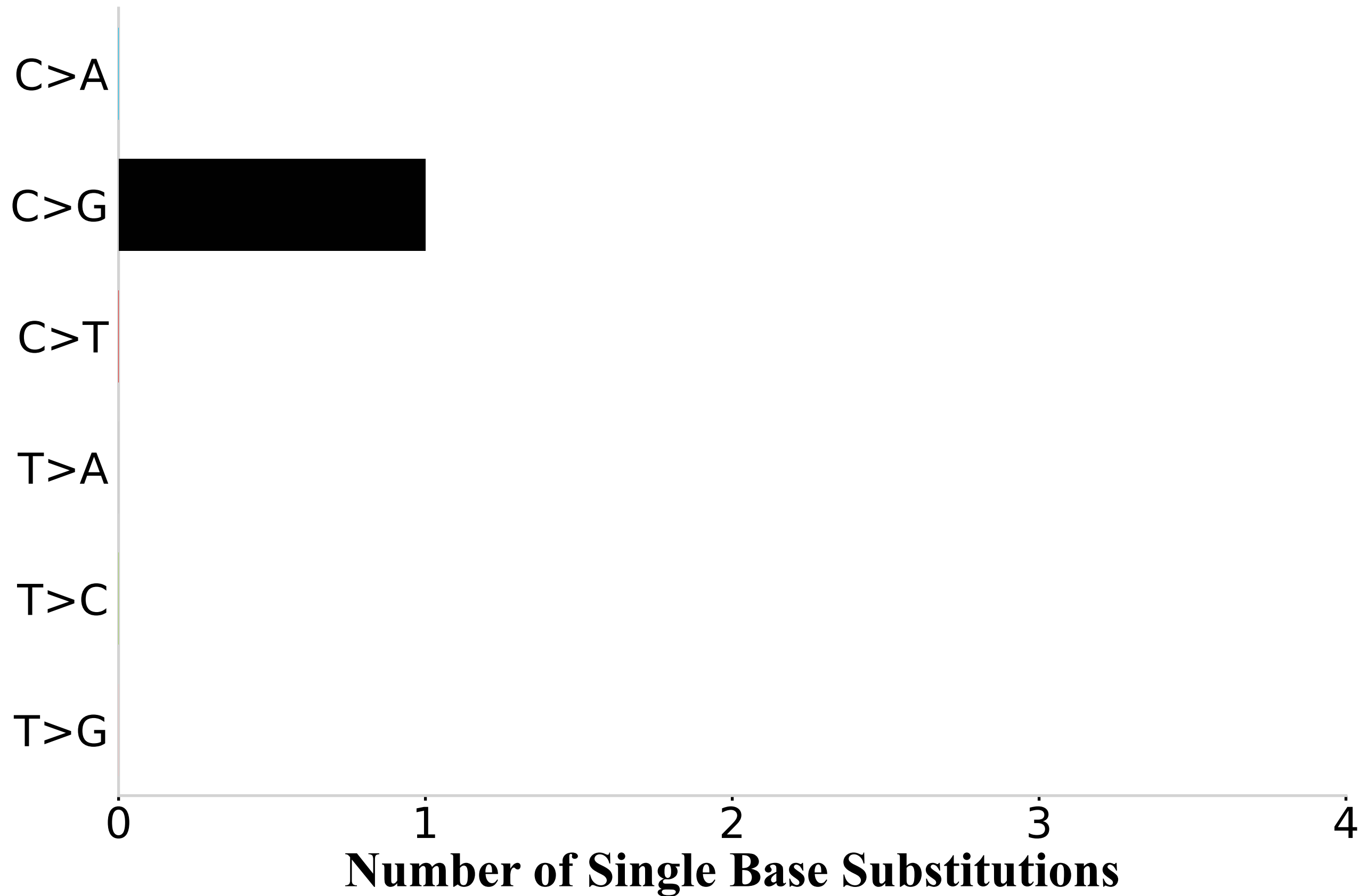
P-0033797-T01-IM6: 3 subs



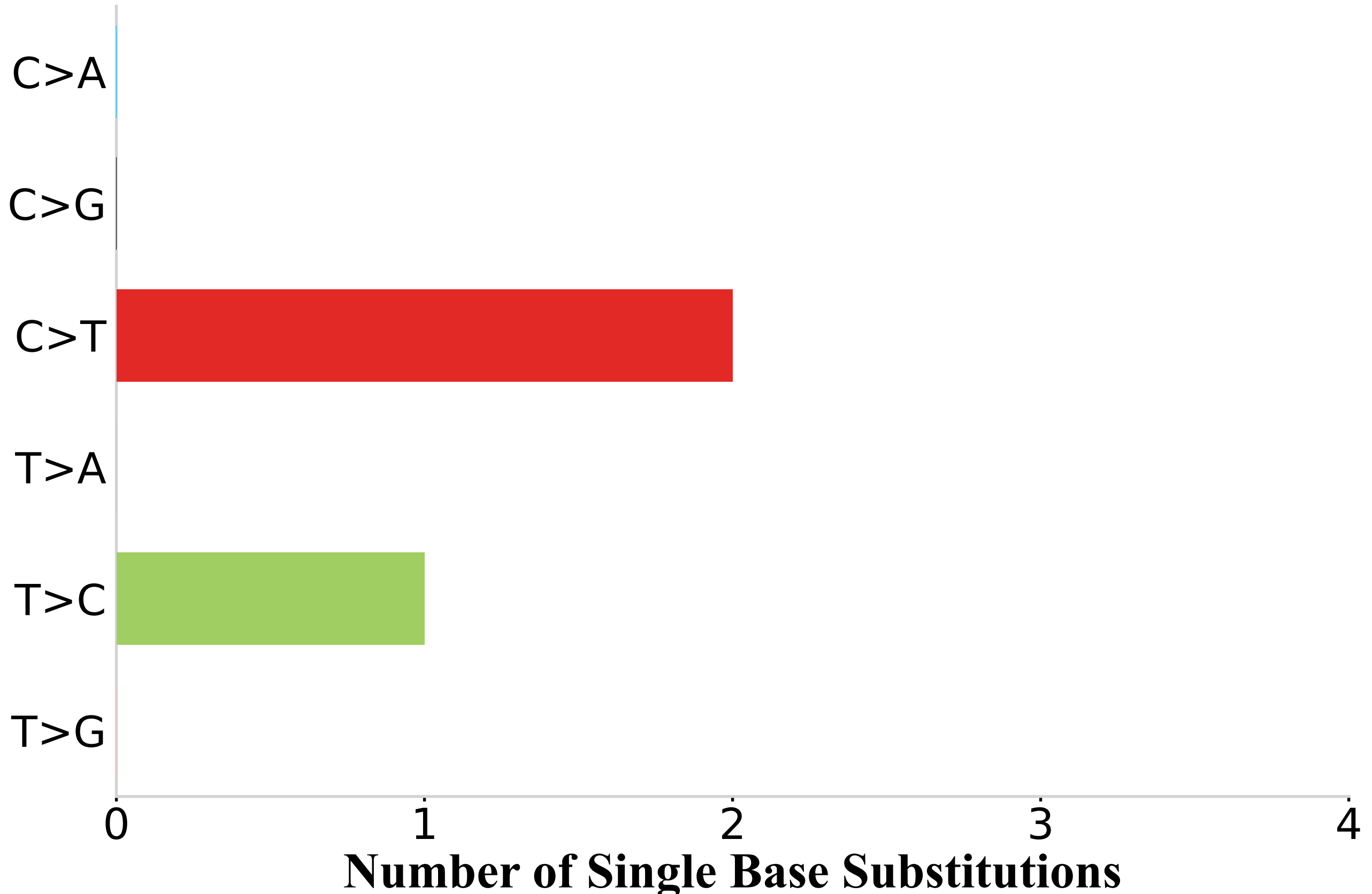
P-0033962-T01-IM6: 7 subs



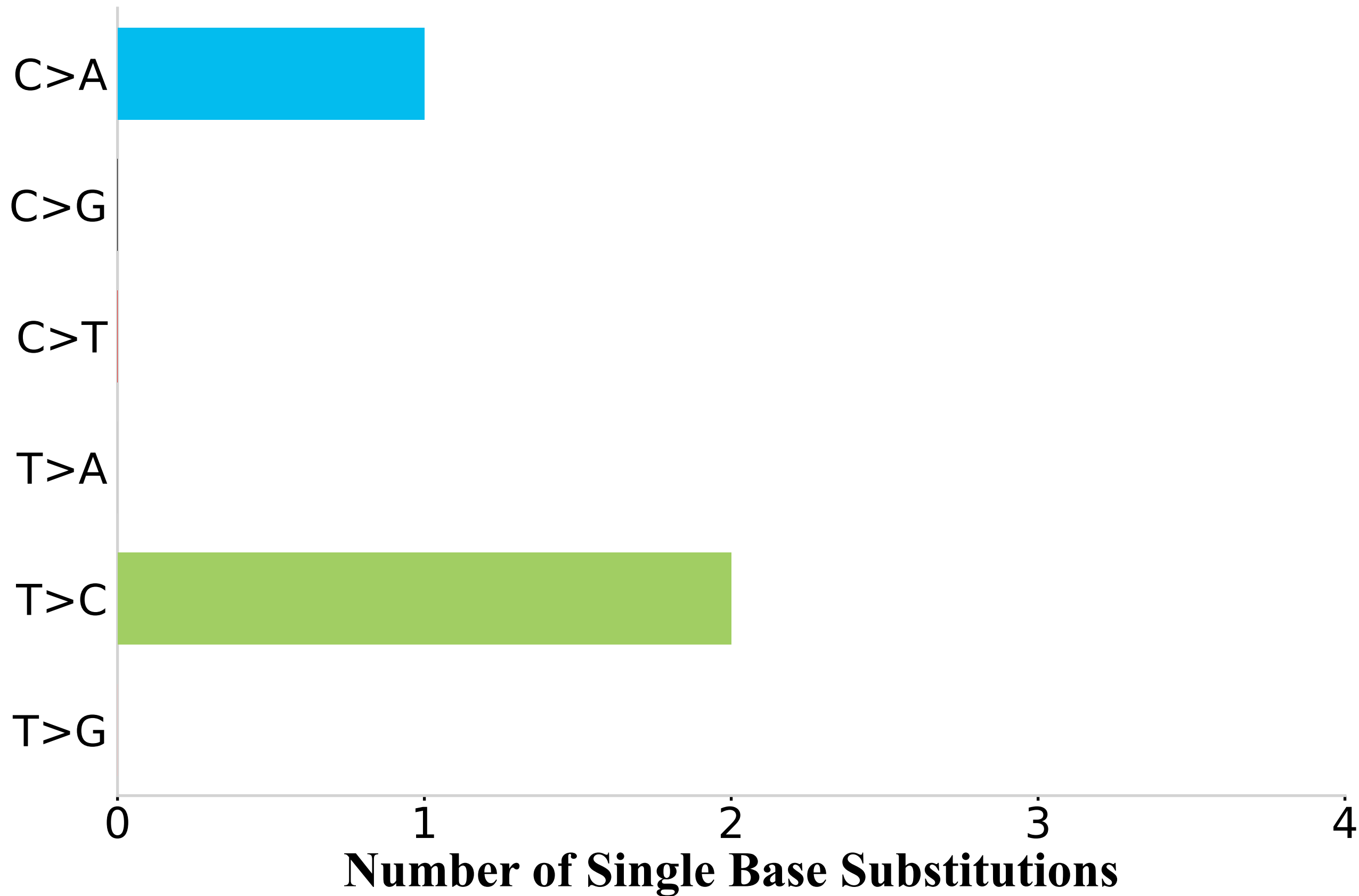
P-0033988-T01-IM6: 1 subs



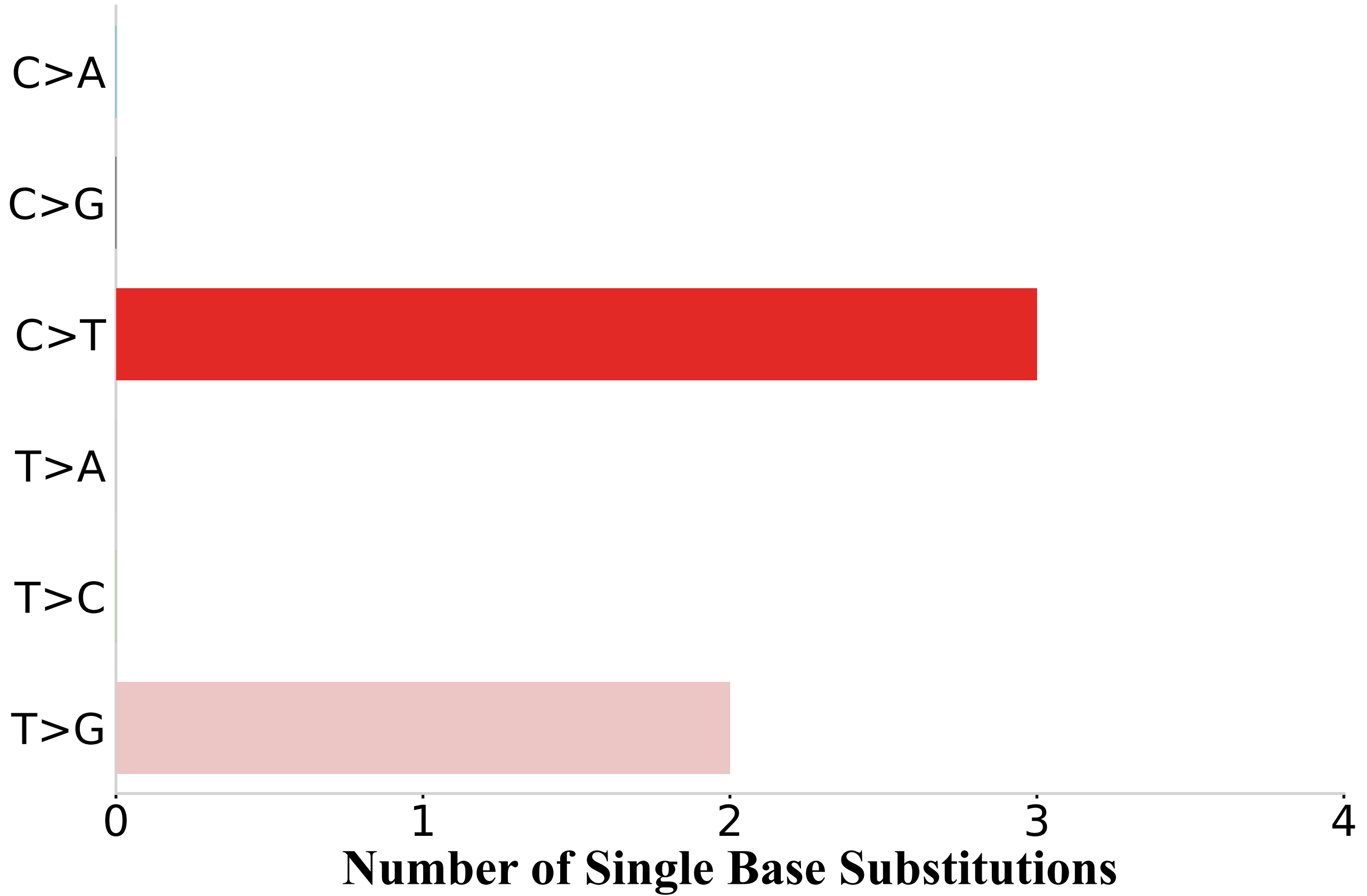
P-0034131-T01-IM6: 3 subs



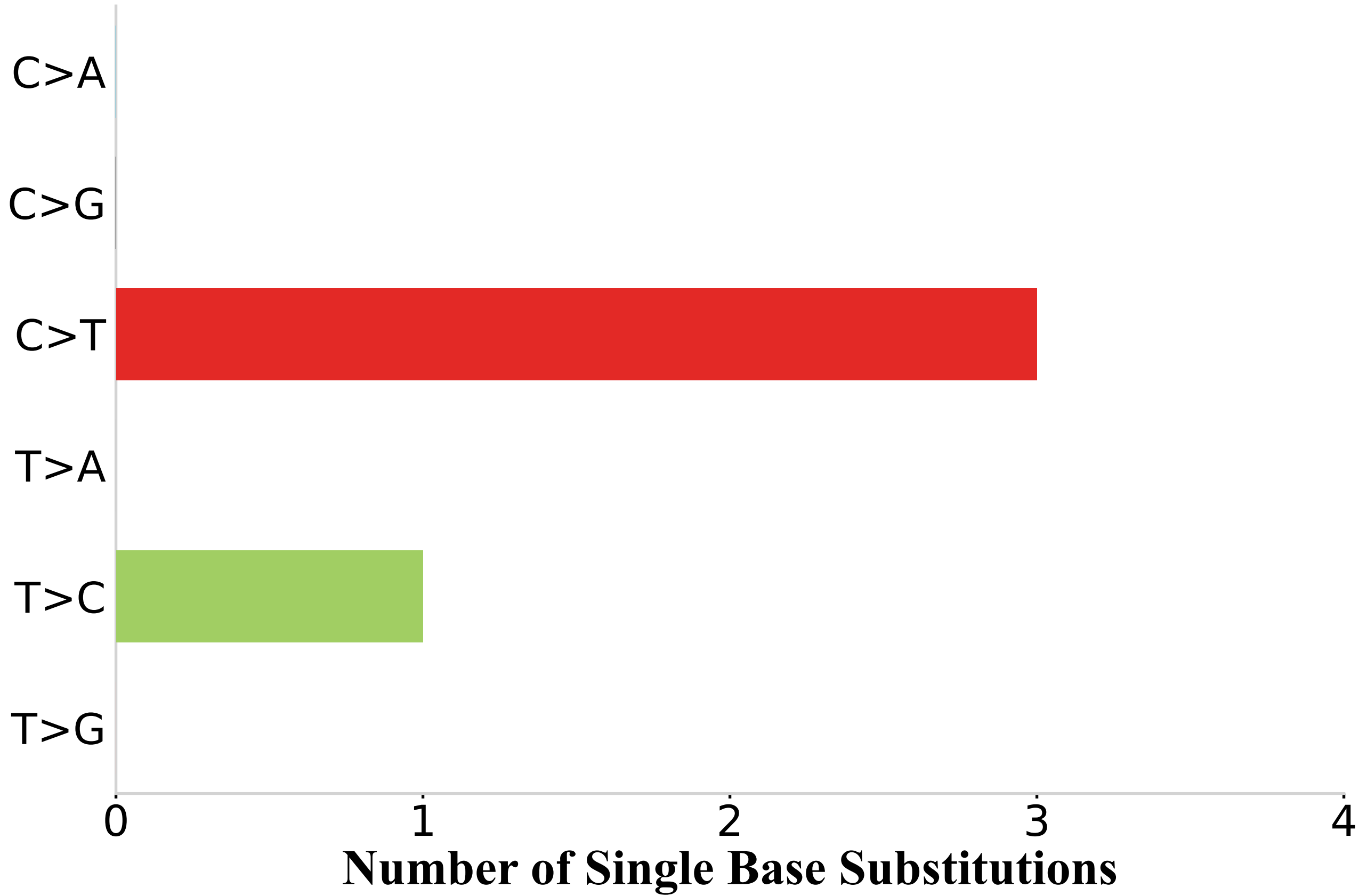
P-0034322-T01-IM6: 3 subs



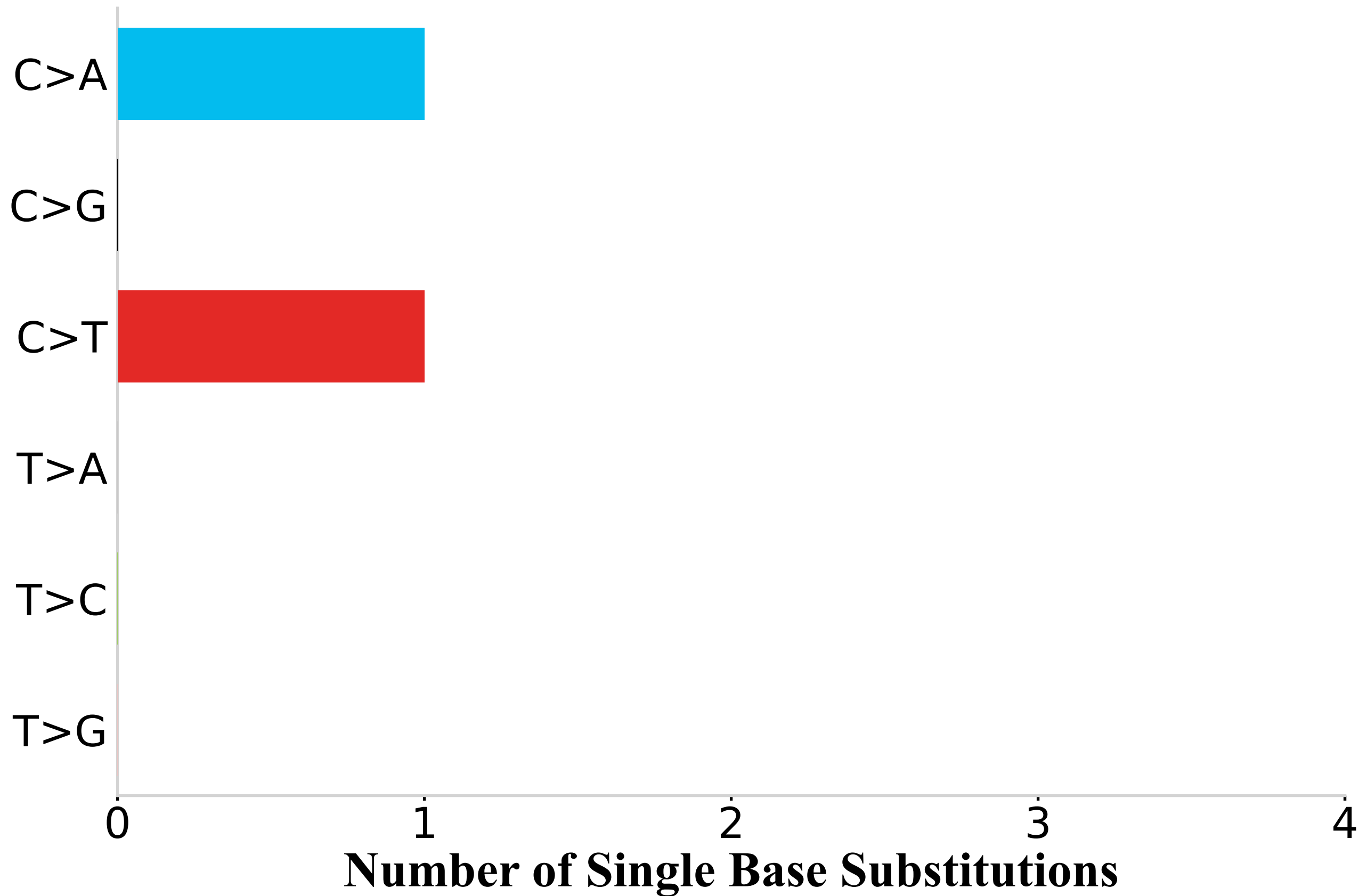
P-0034412-T01-IM6: 5 subs



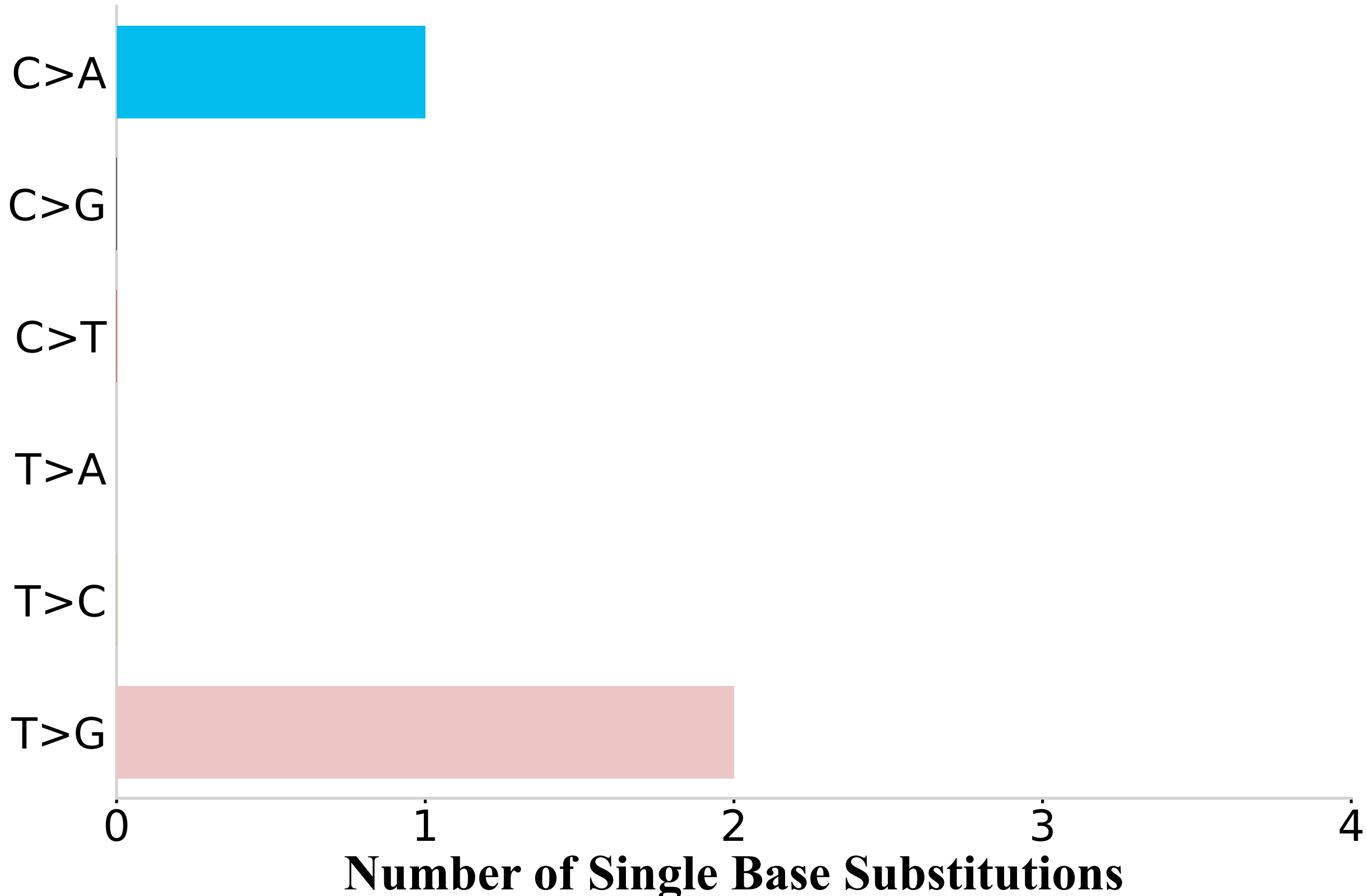
P-0034614-T01-IM6: 4 subs



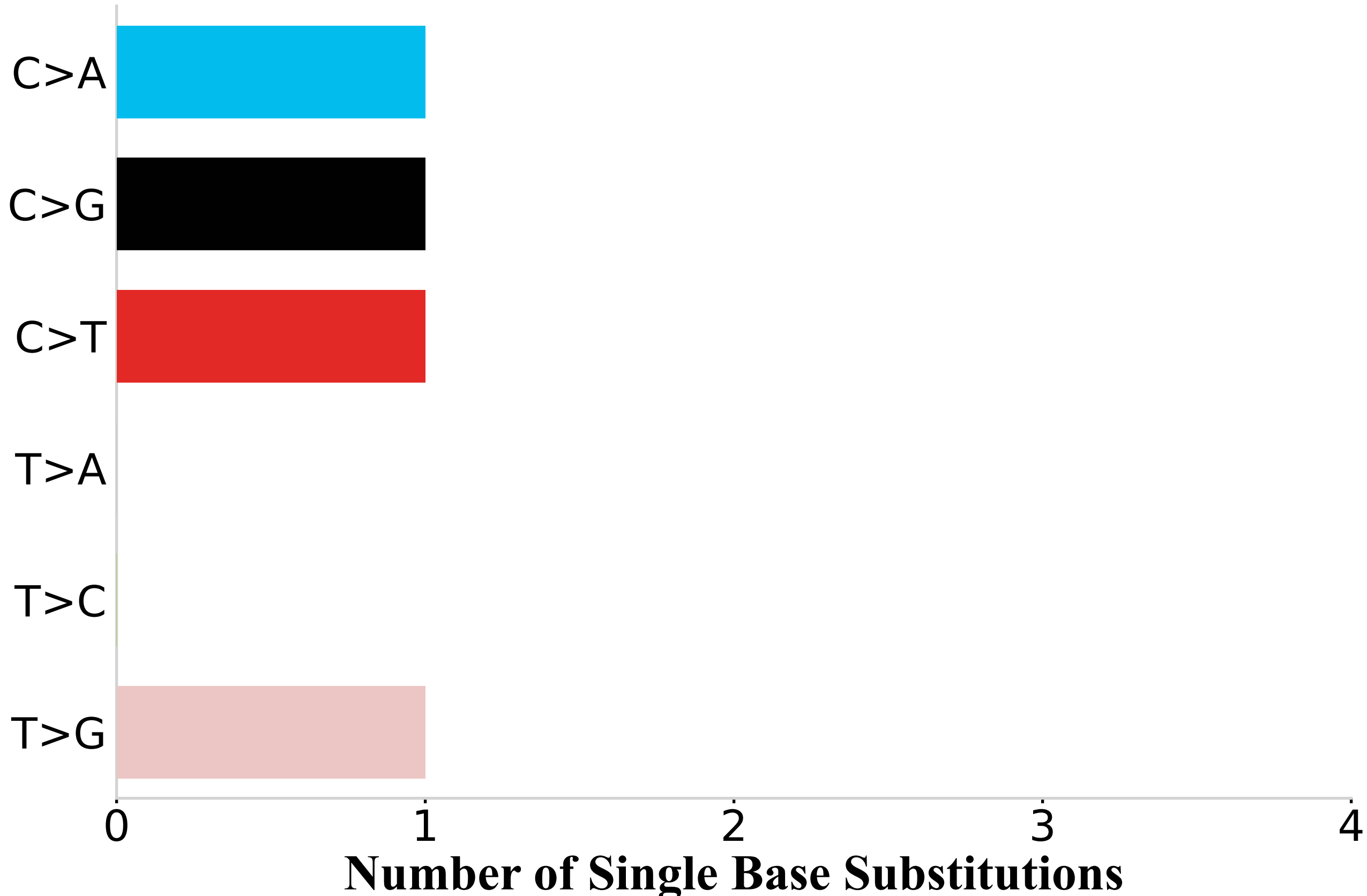
P-0034940-T01-IM6: 2 subs



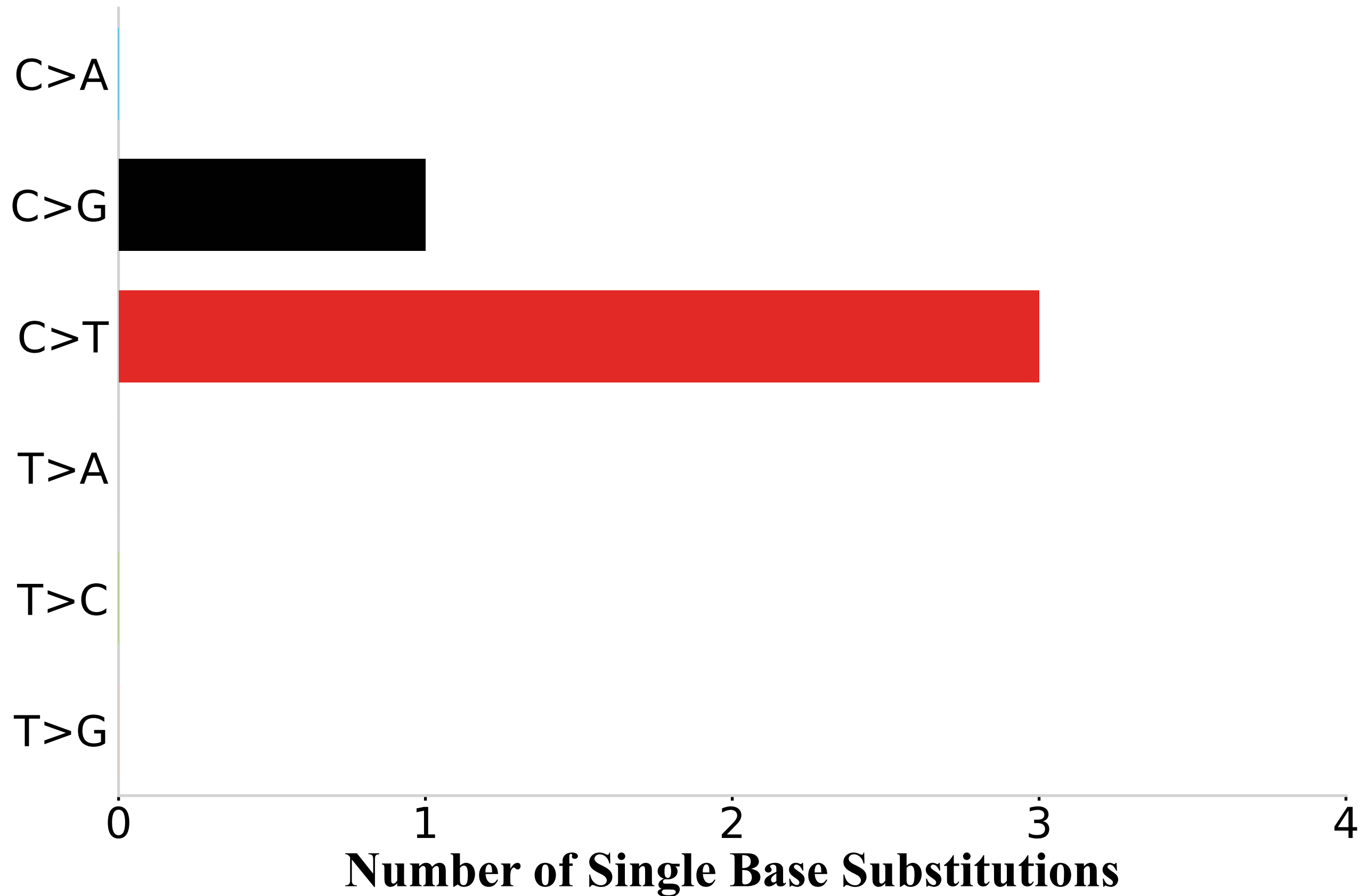
P-0035160-T01-IM6: 3 subs



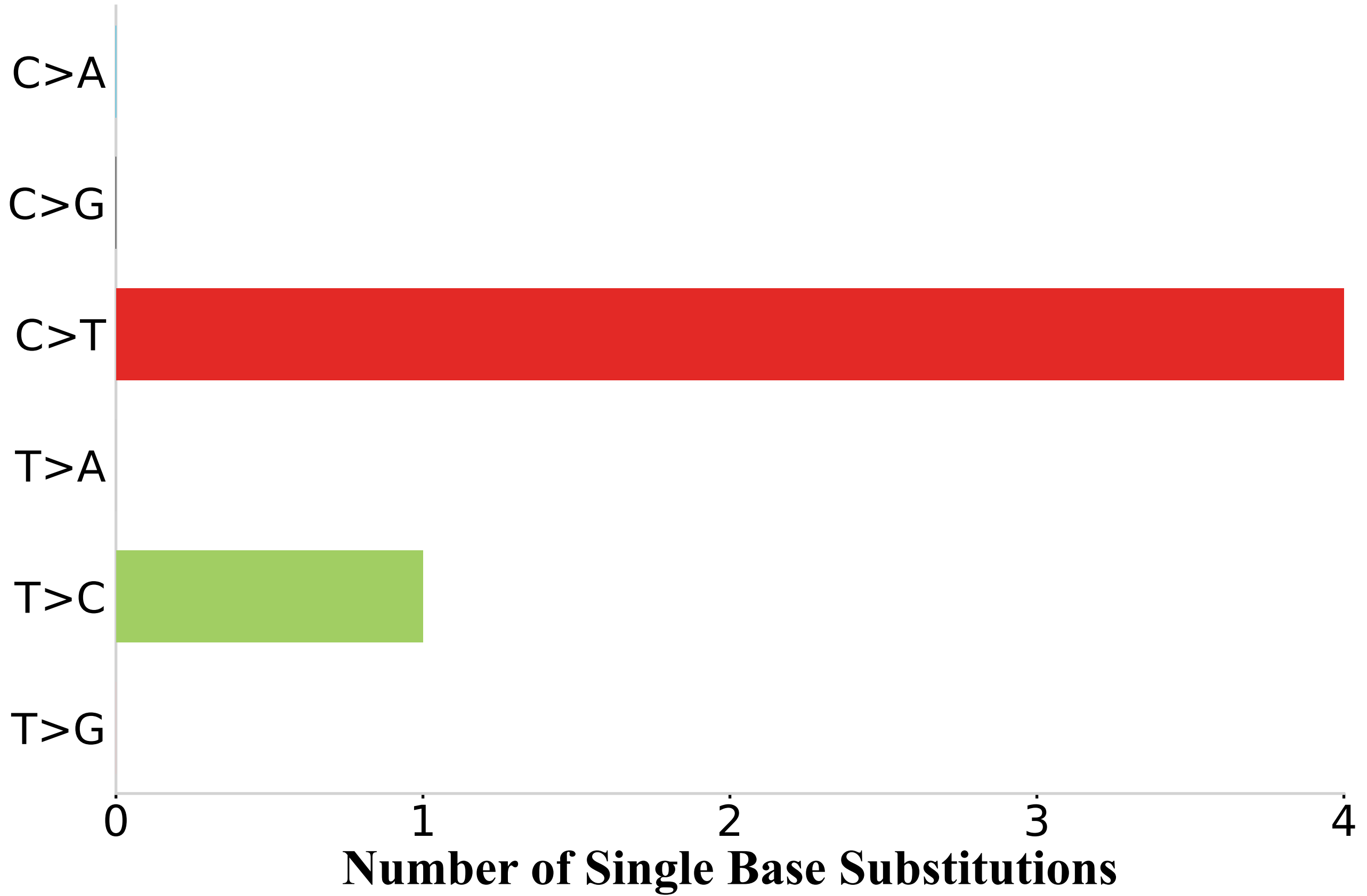
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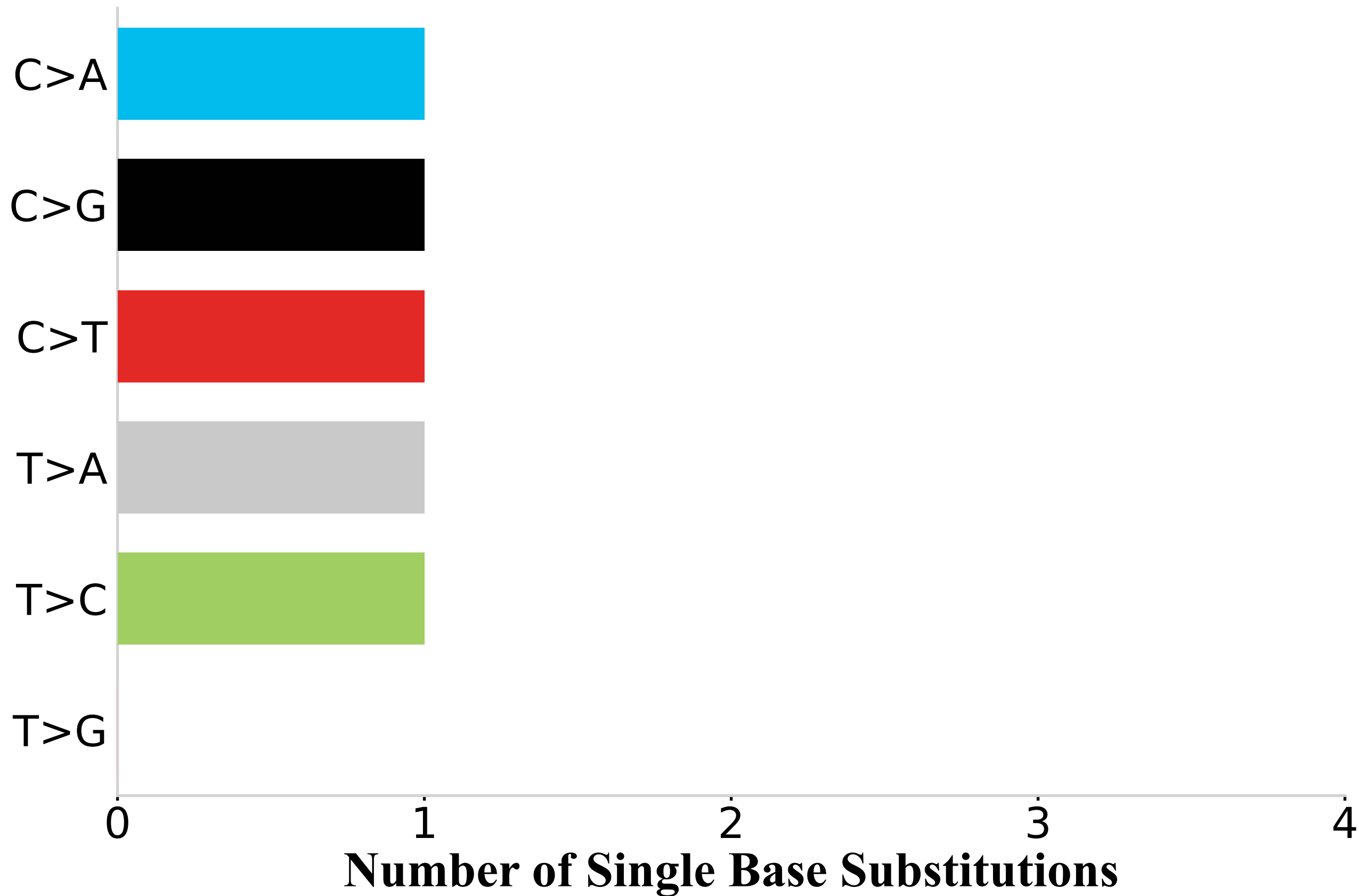
P-0035275-T01-IM6: 4 subs



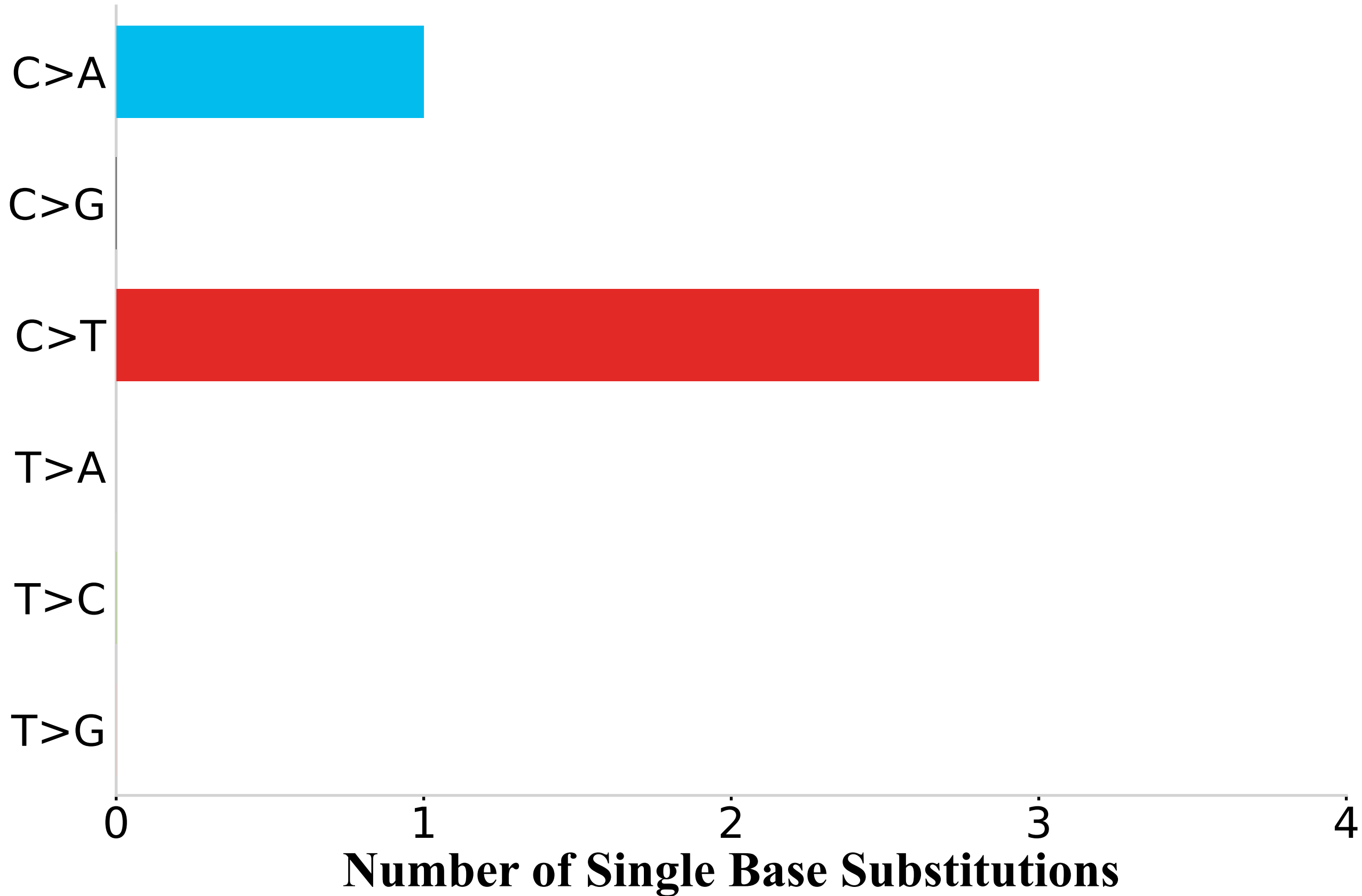
P-0035471-T01-IM6: 5 subs



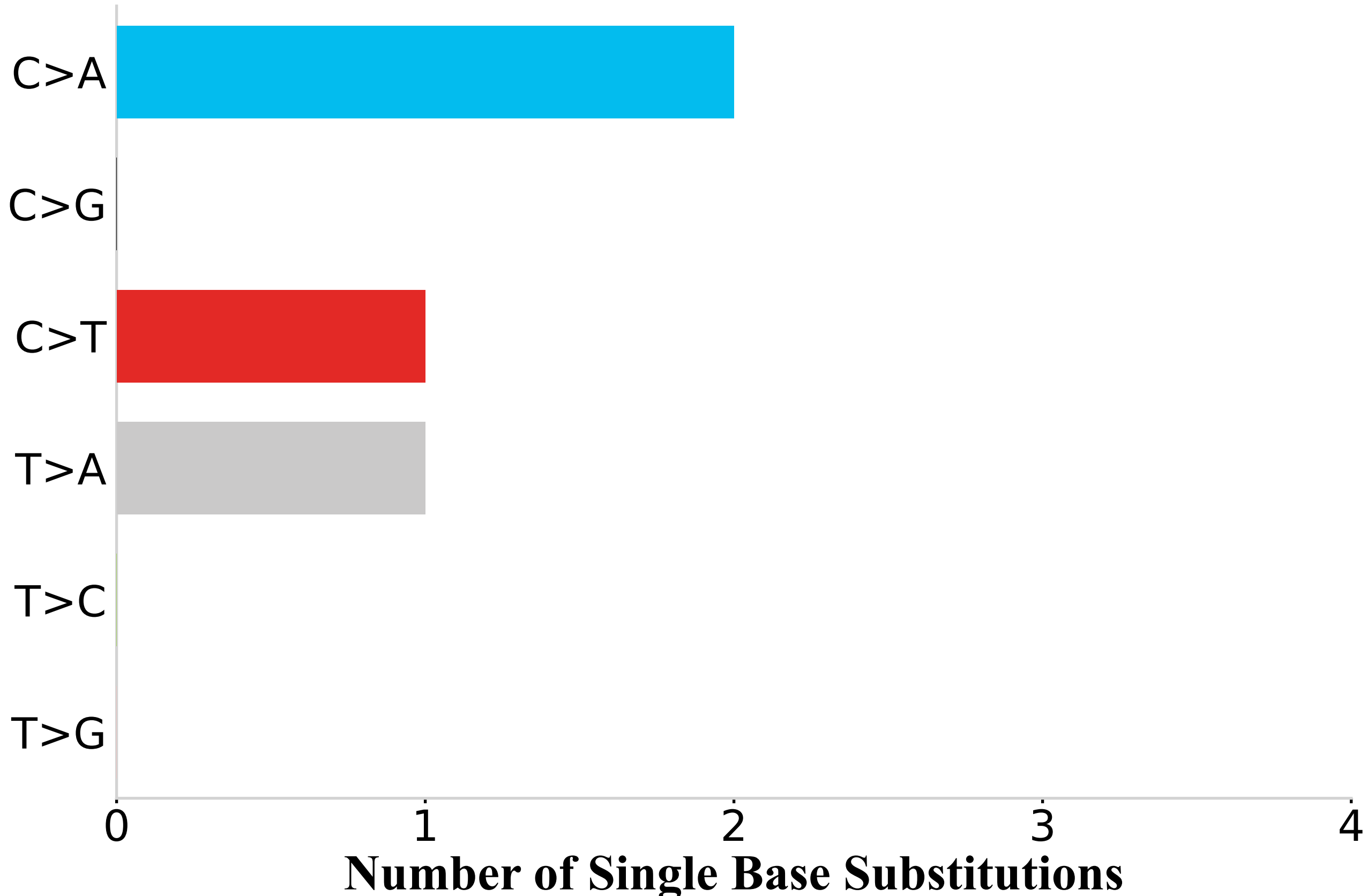
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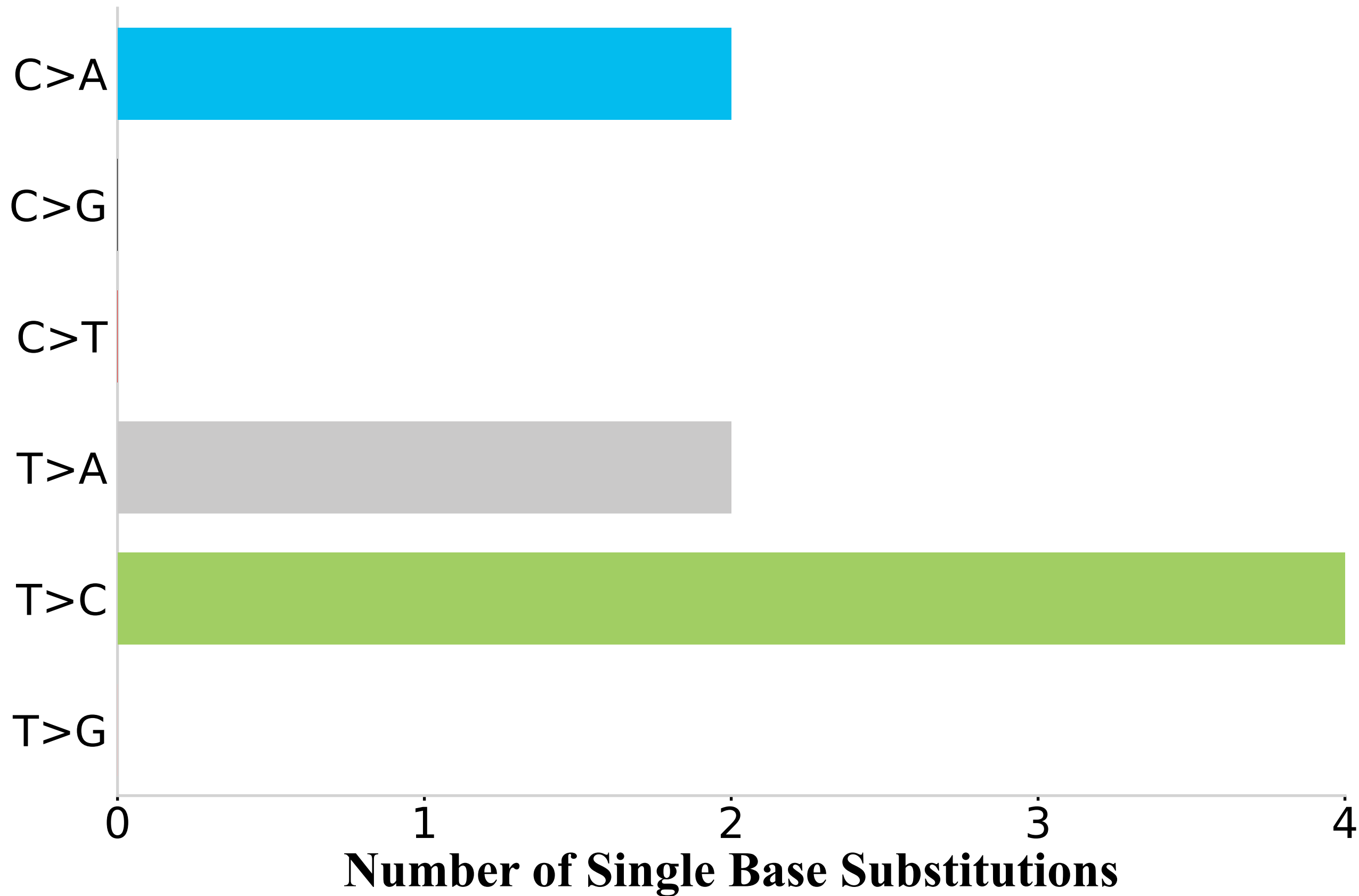
P-0035664-T01-IM6: 4 subs



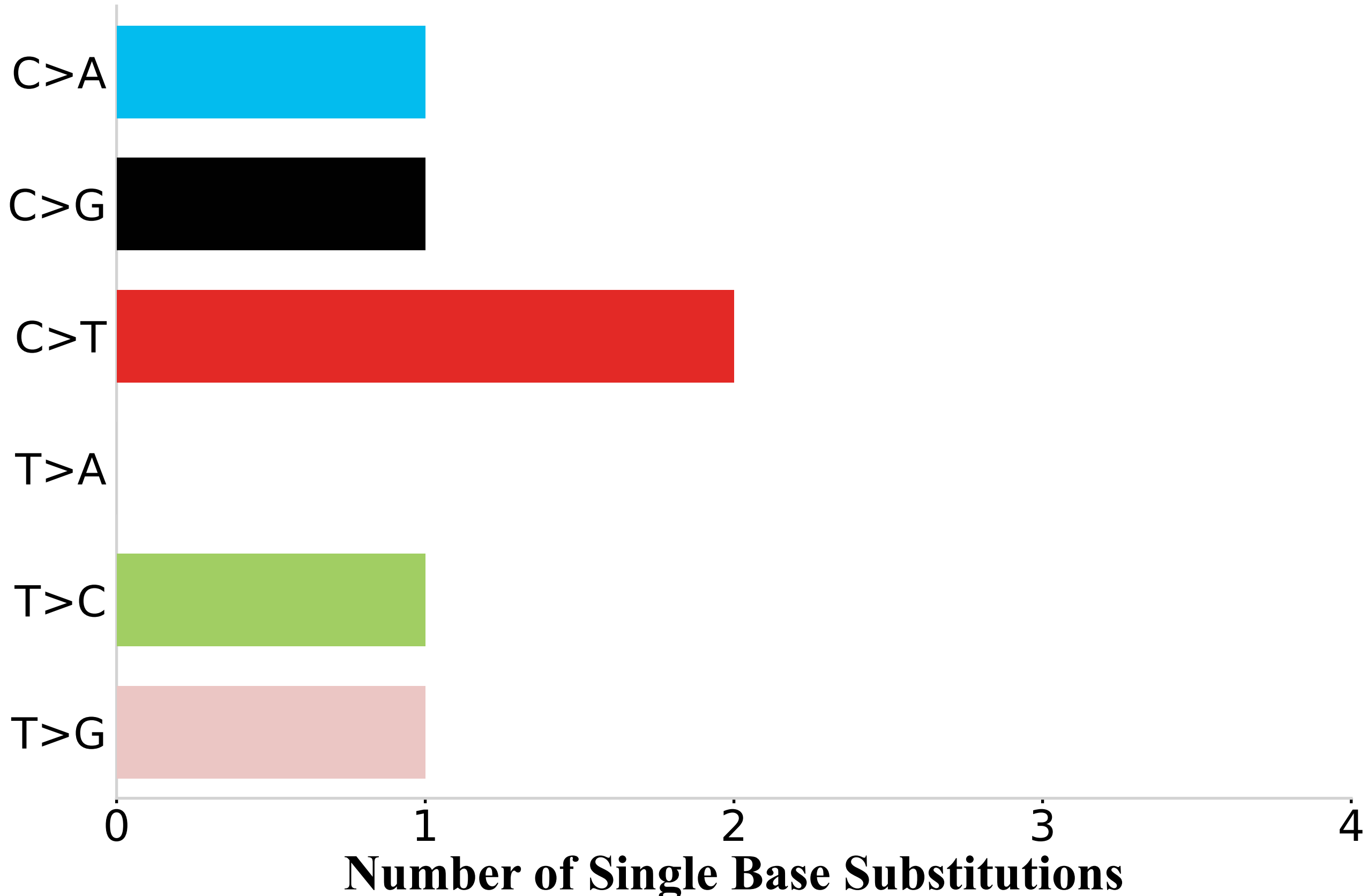
P-0035829-T01-IM6: 4 subs



P-0035891-T01-IM6: 8 subs



P-0036331-T01-IM6: 6 subs



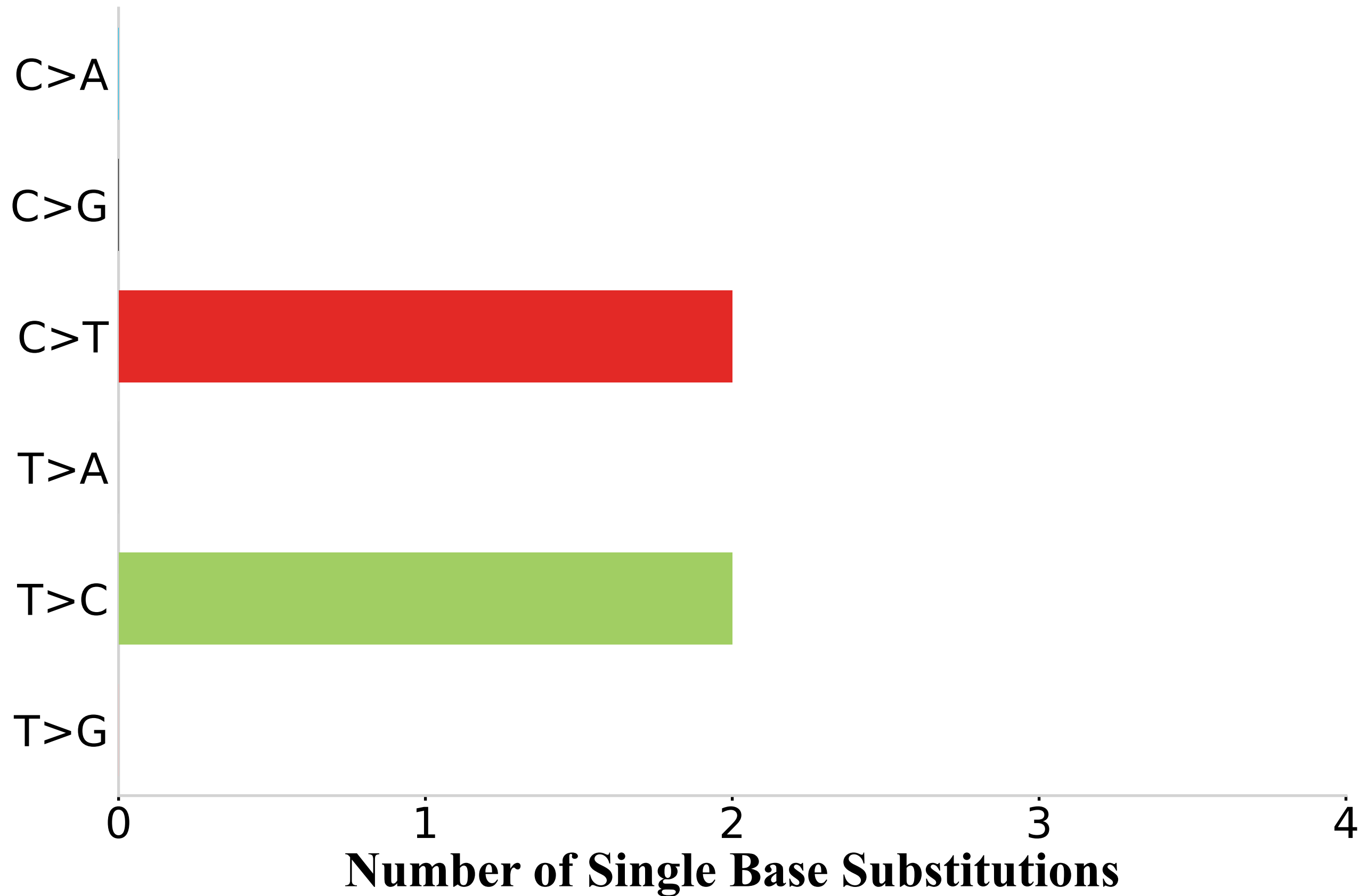
P-0036393-T01-IM6: 1 subs



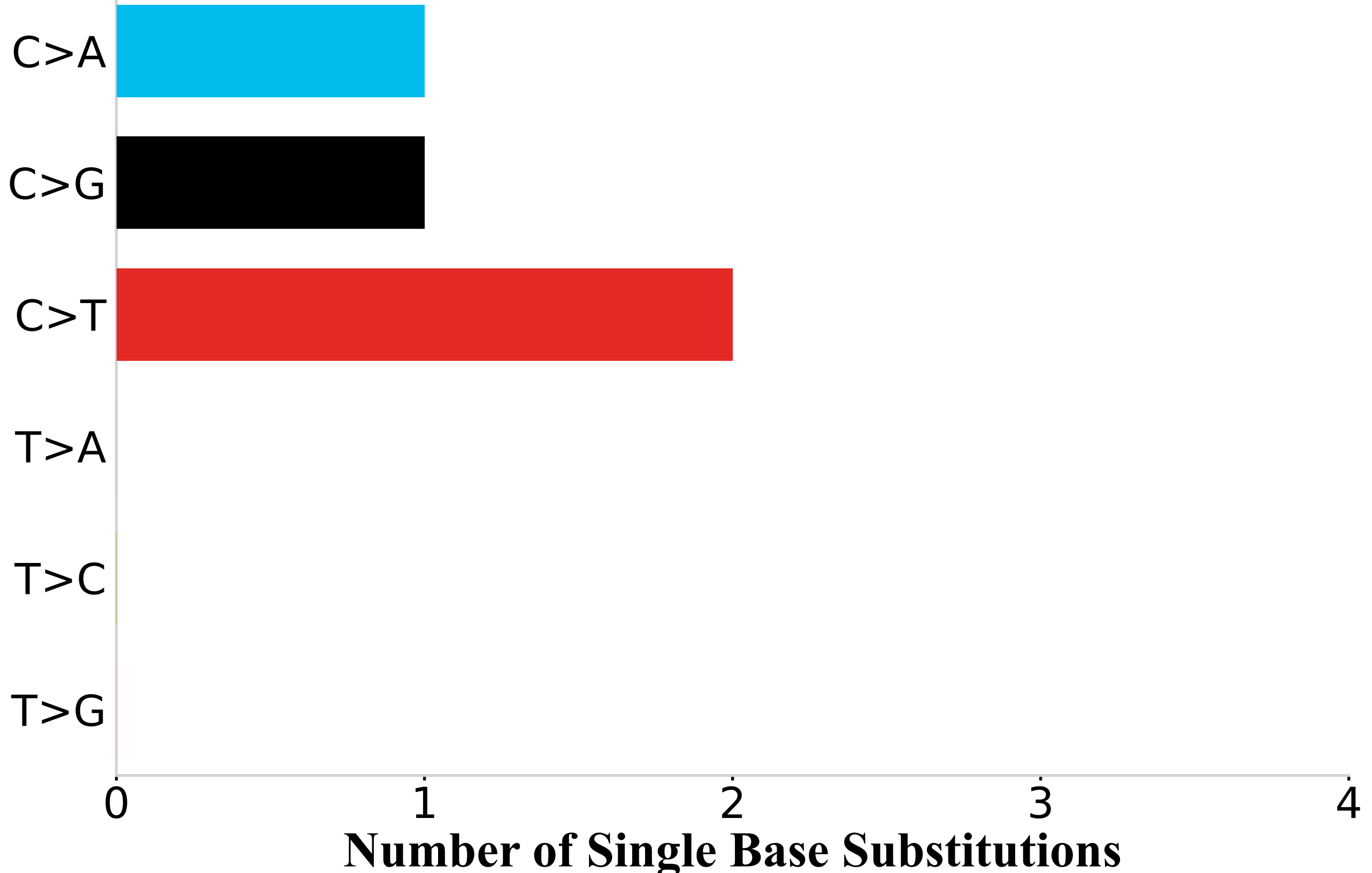
P-0036752-T01-IM6: 1 subs



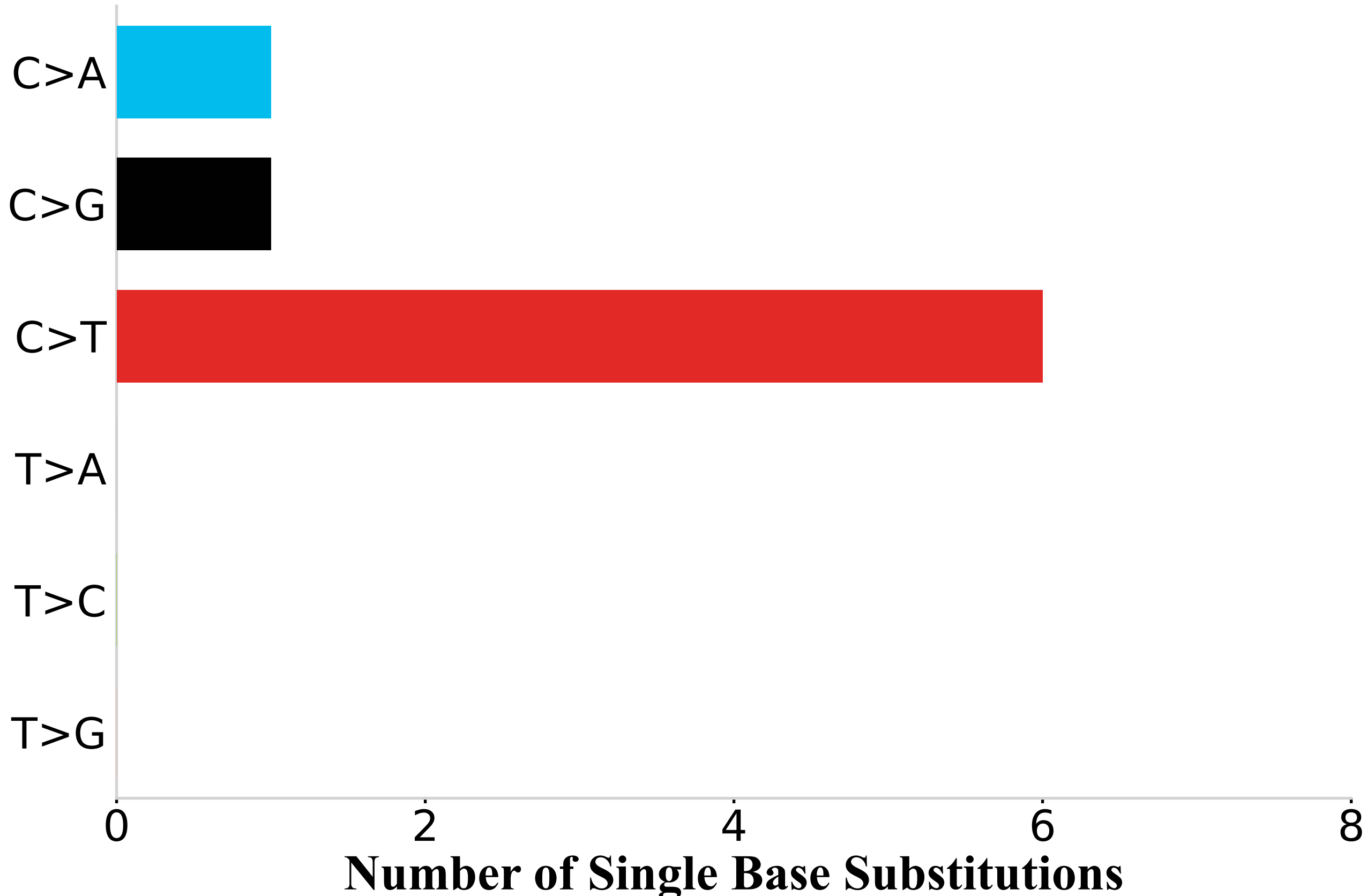
P-0036844-T02-IM6: 4 subs



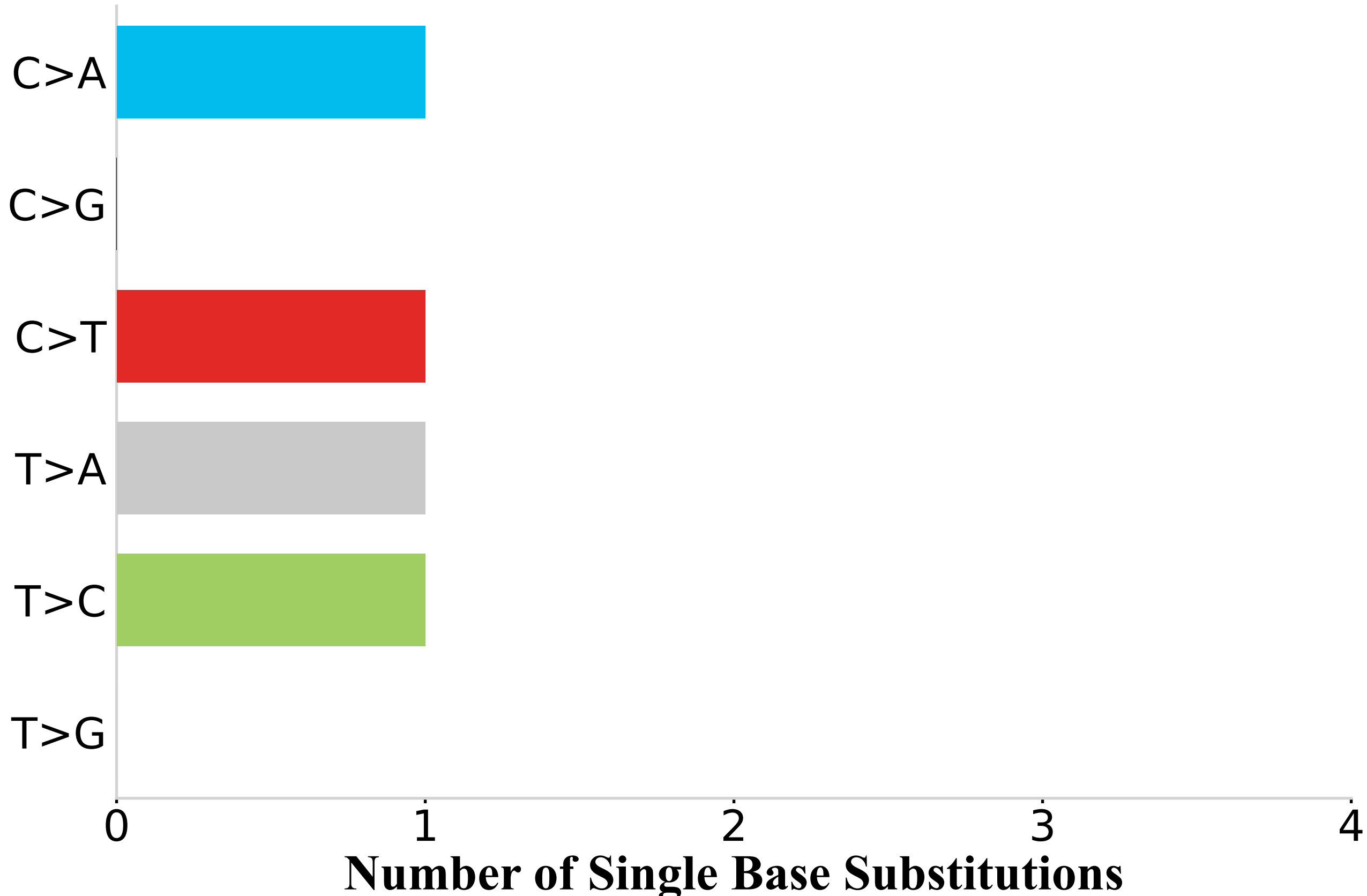
P-0037024-T01-IM6: 4 subs



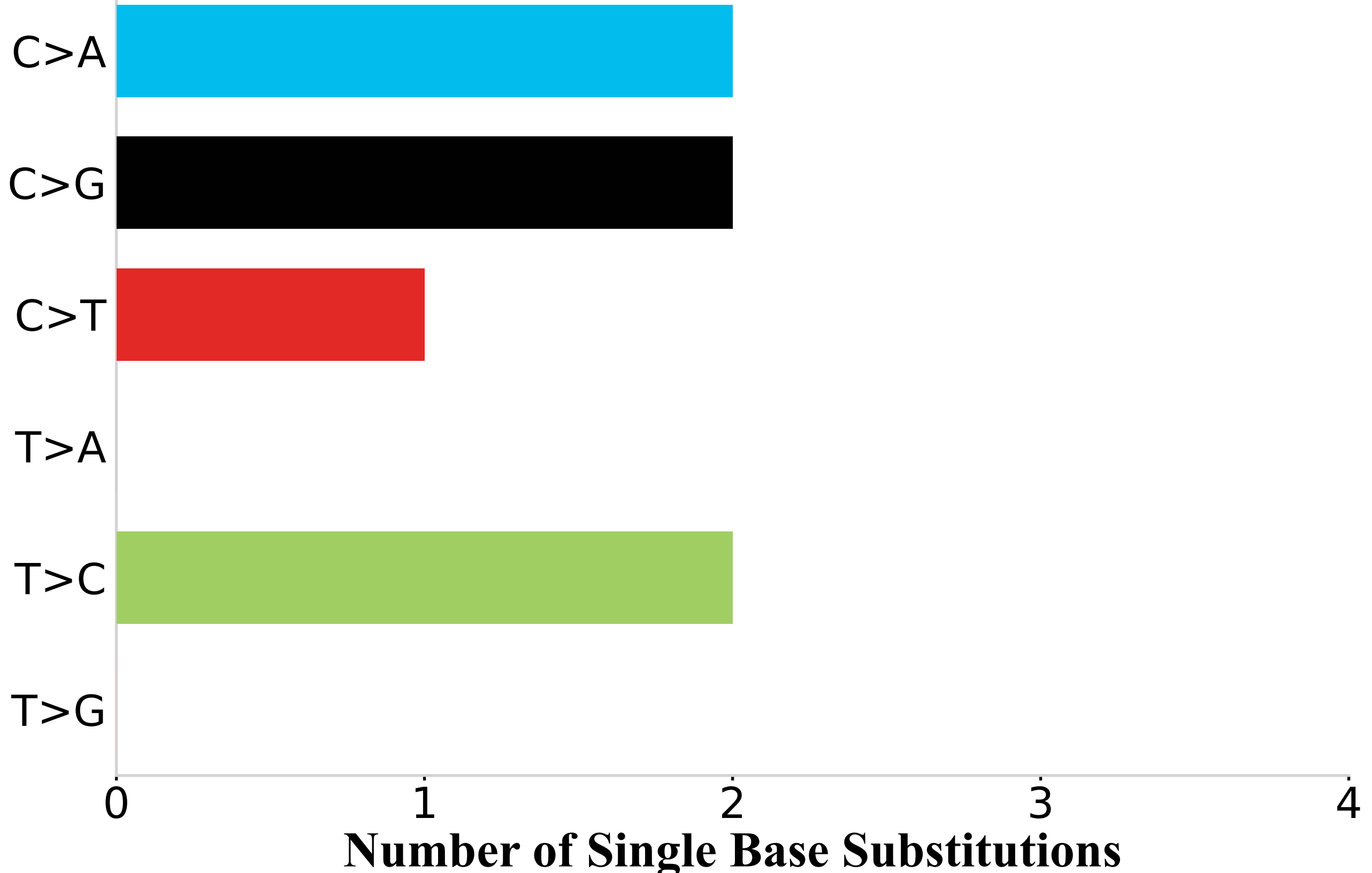
P-0037103-T01-IM6: 8 subs



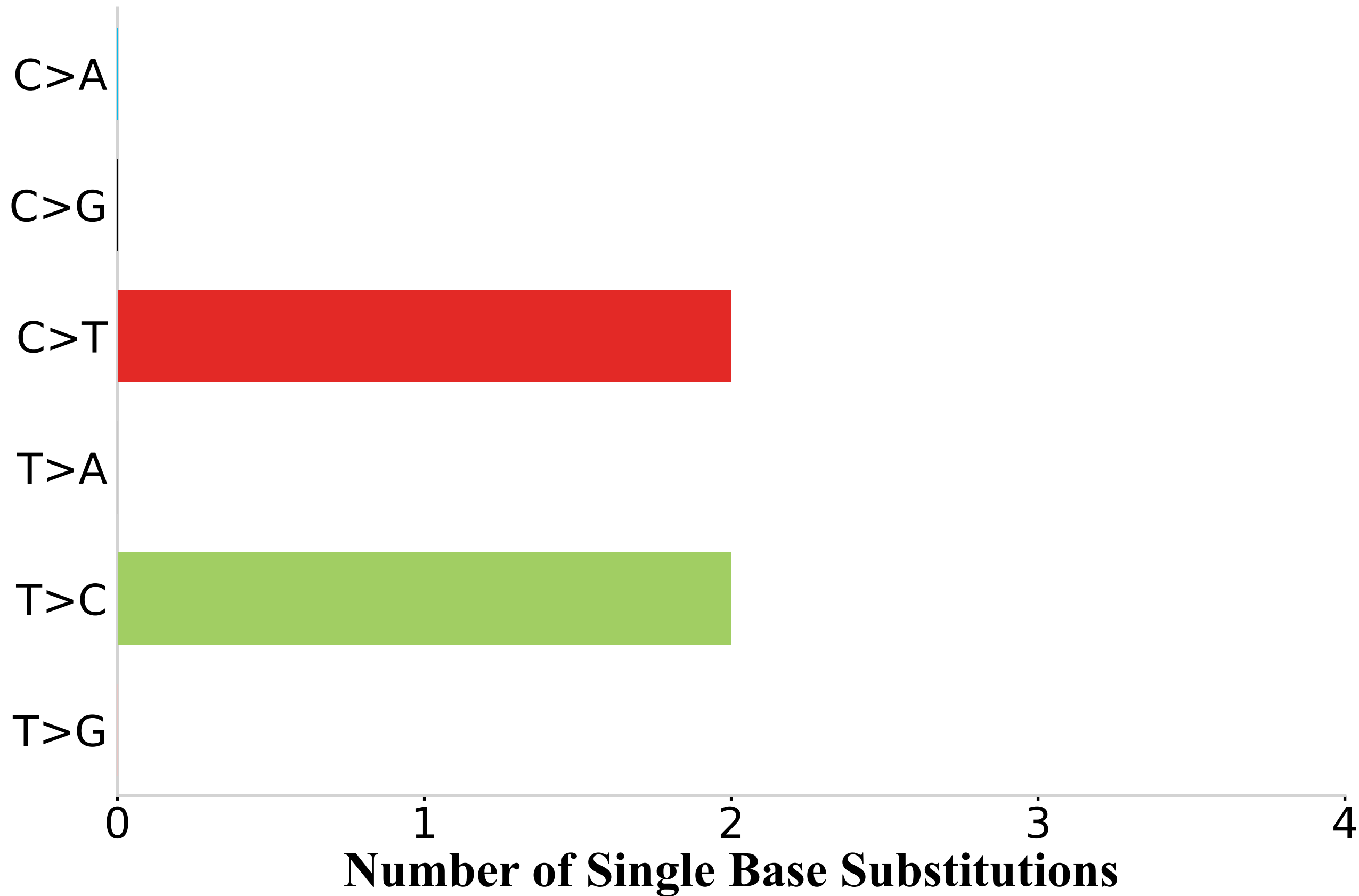
P-0037172-T01-IM6: 4 subs



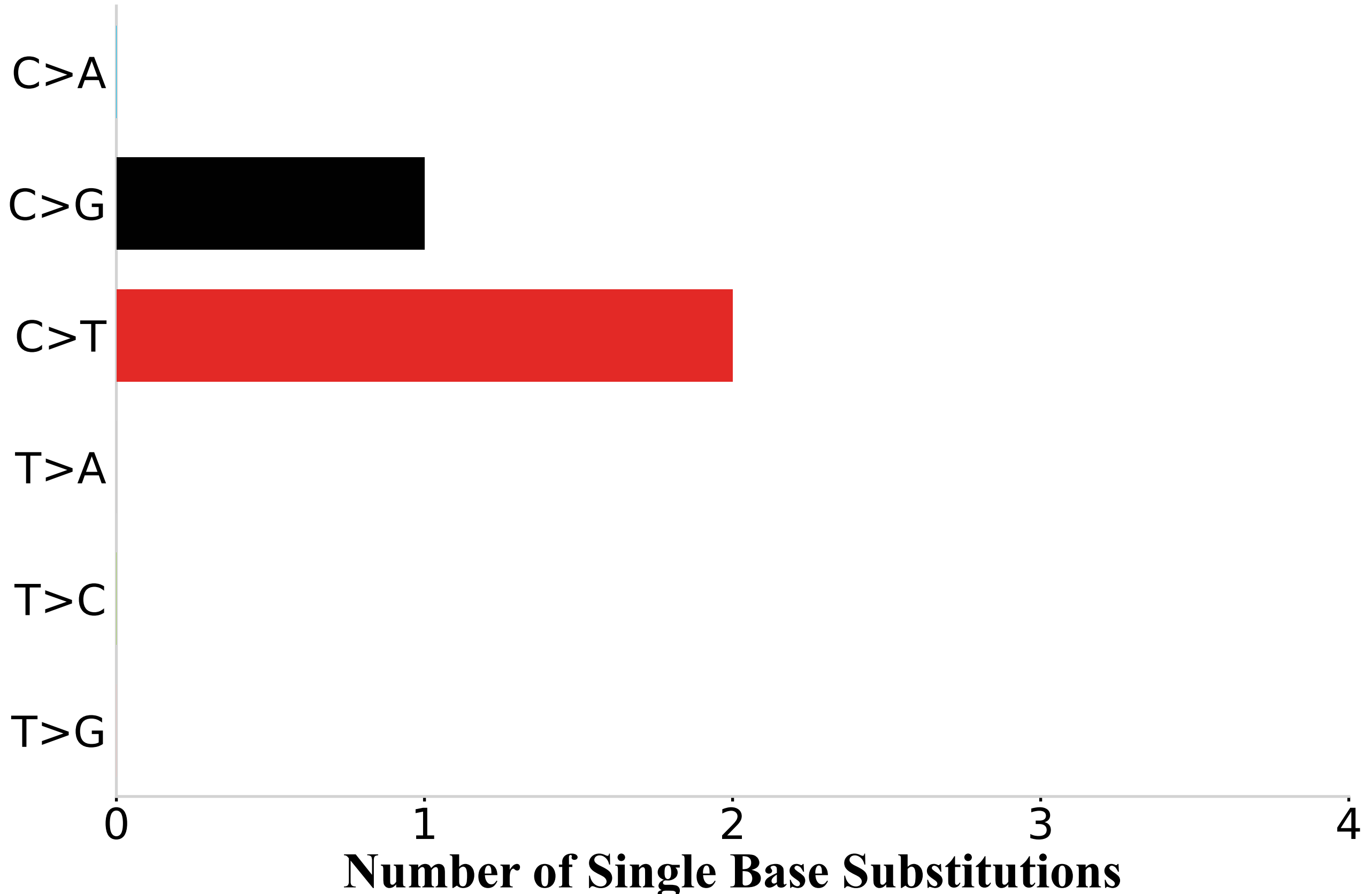
P-0037274-T01-IM6: 7 subs



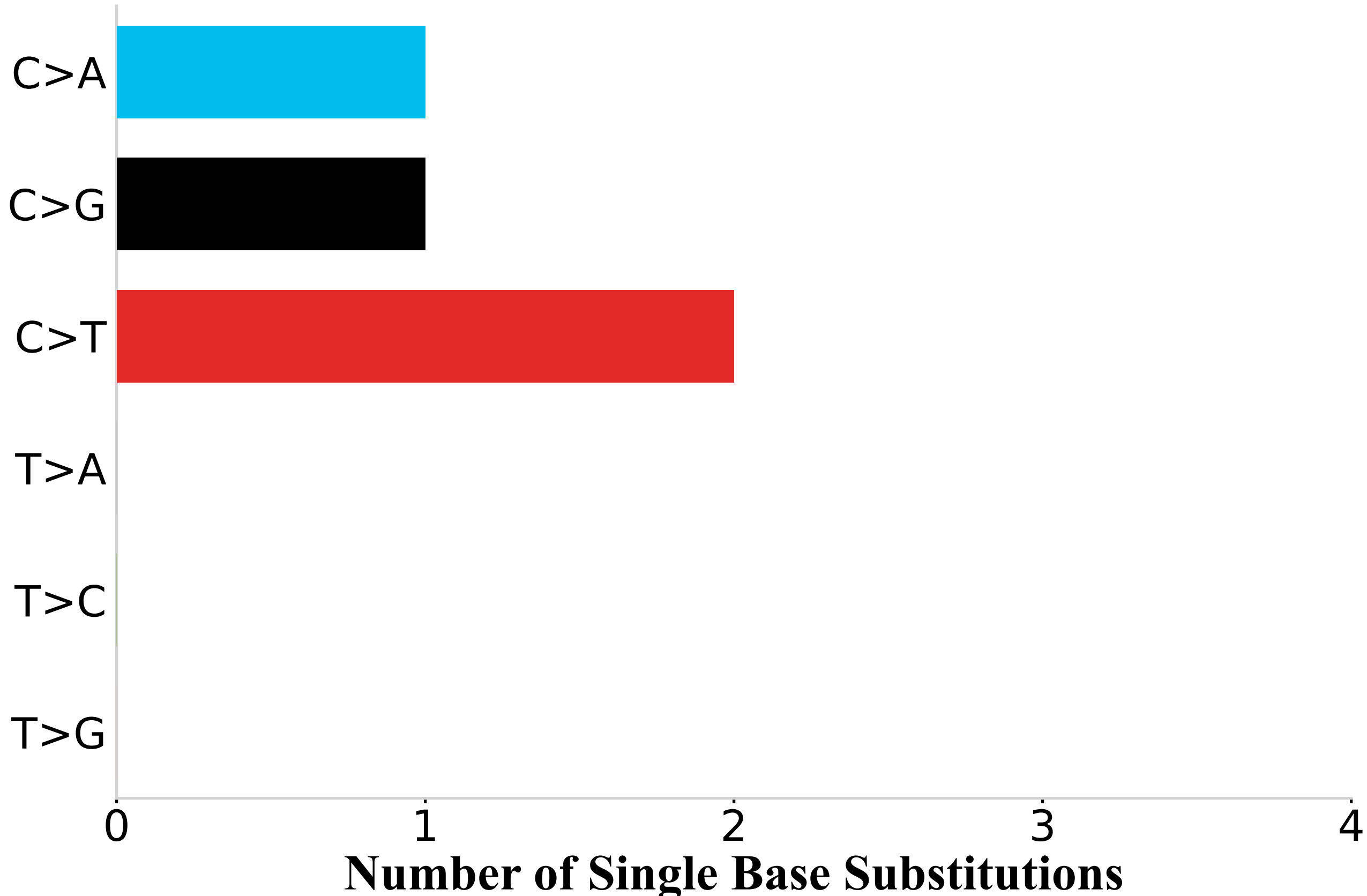
P-0037545-T01-IM6: 4 subs



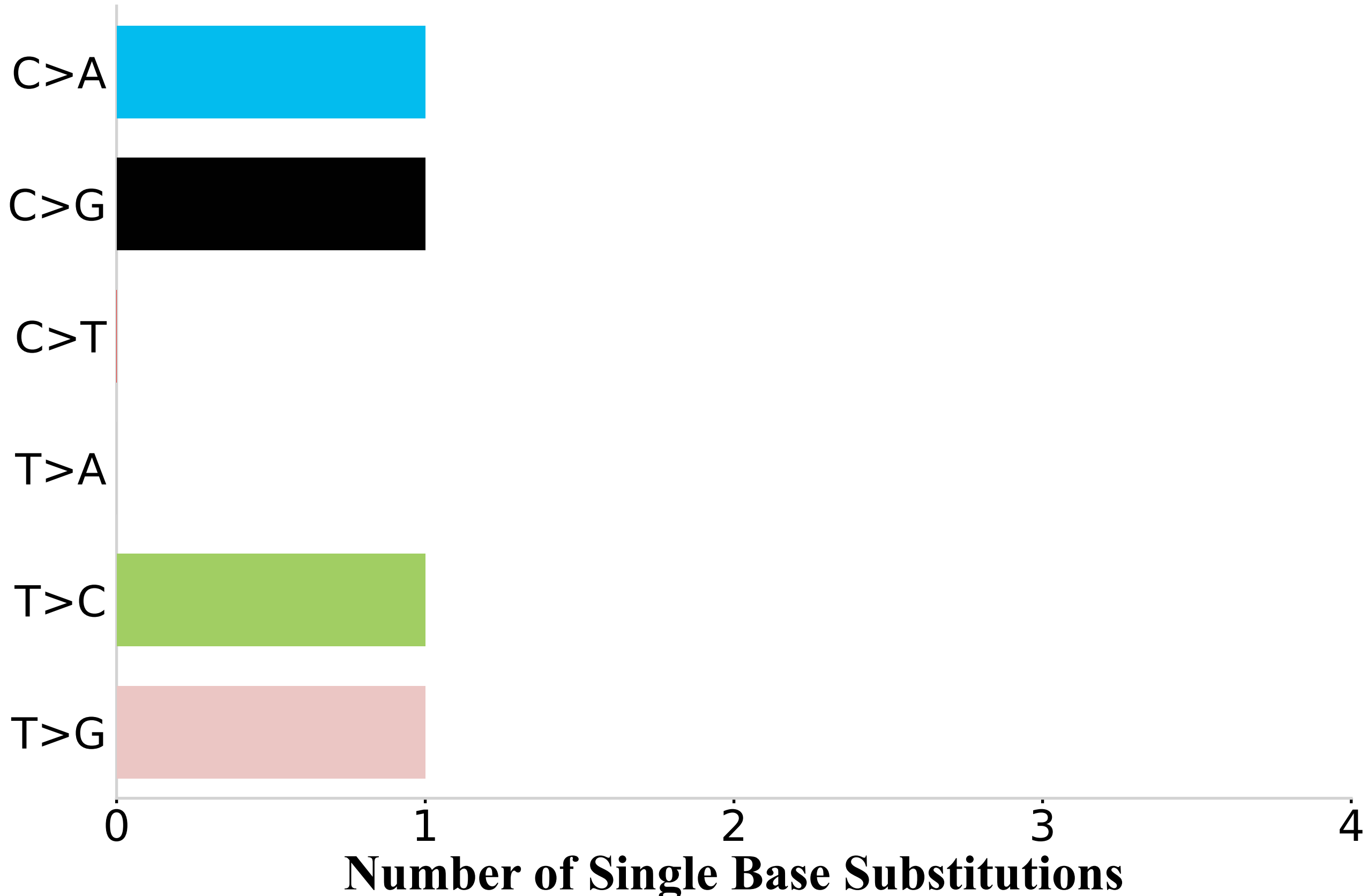
P-0037548-T01-IM6: 3 subs



P-0037624-T01-IM6: 4 subs



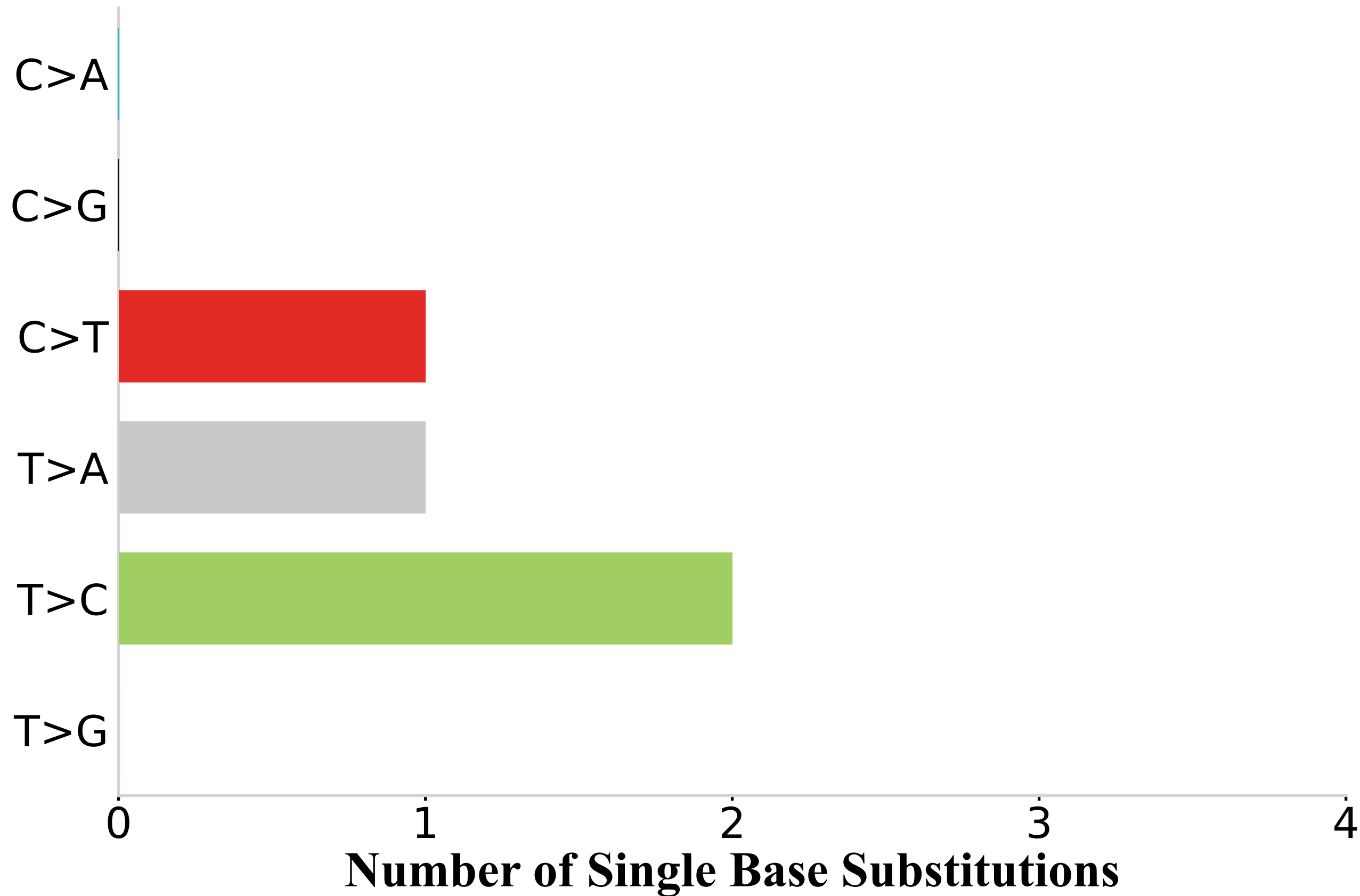
P-0037769-T01-IM6: 4 subs



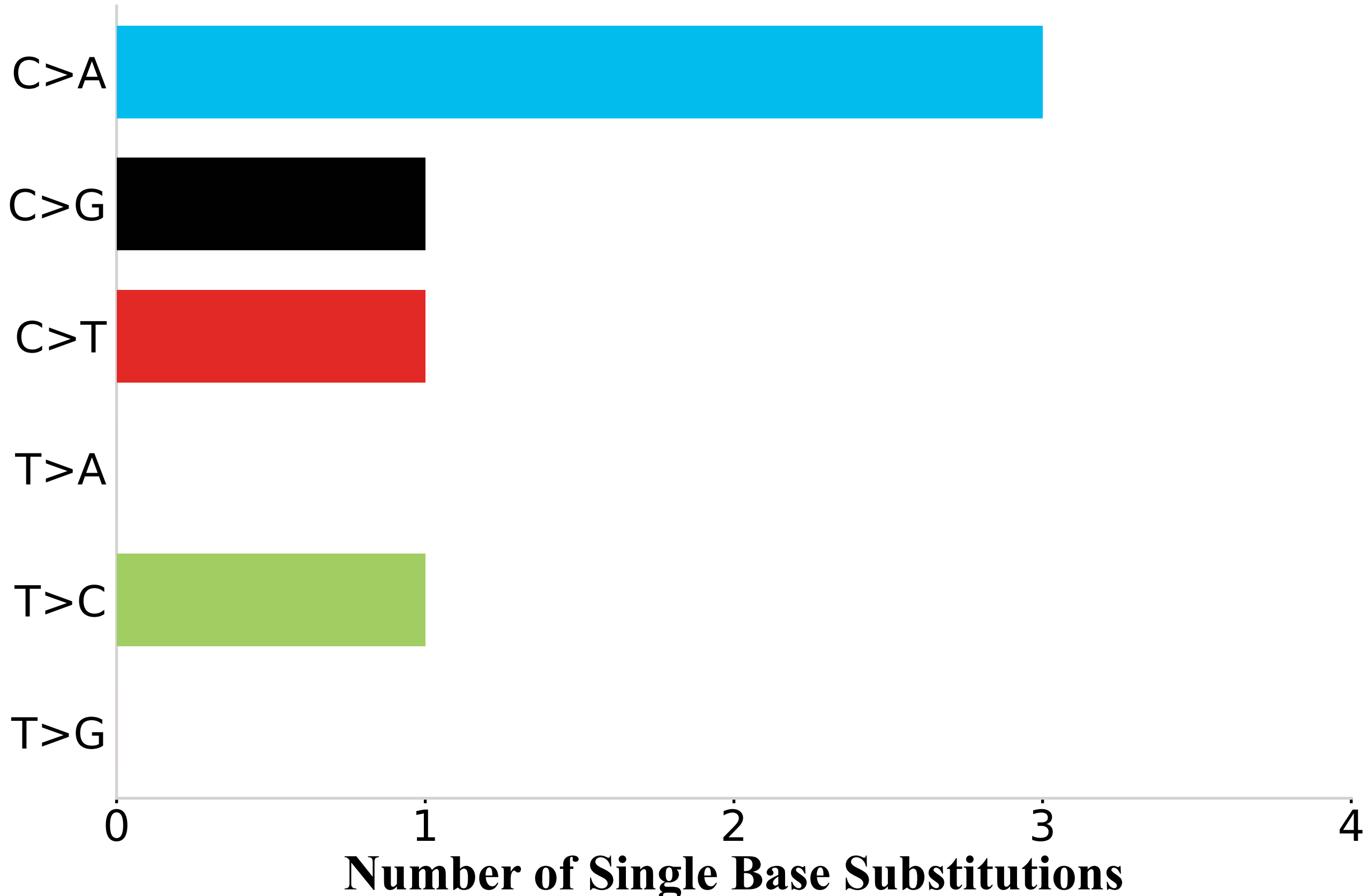
P-0037869-T01-IM6: 1 subs



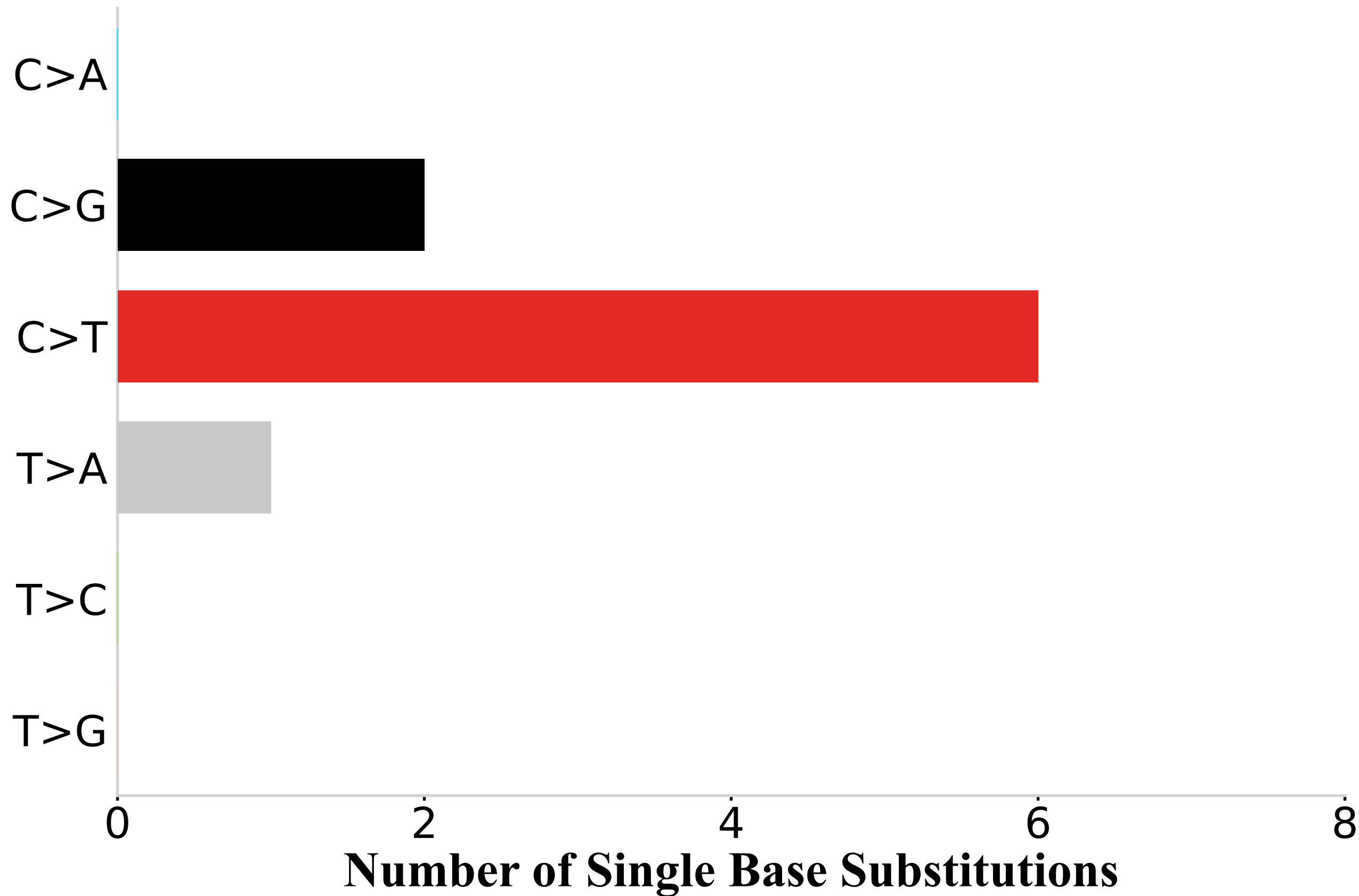
P-0038374-T01-IM6: 4 subs



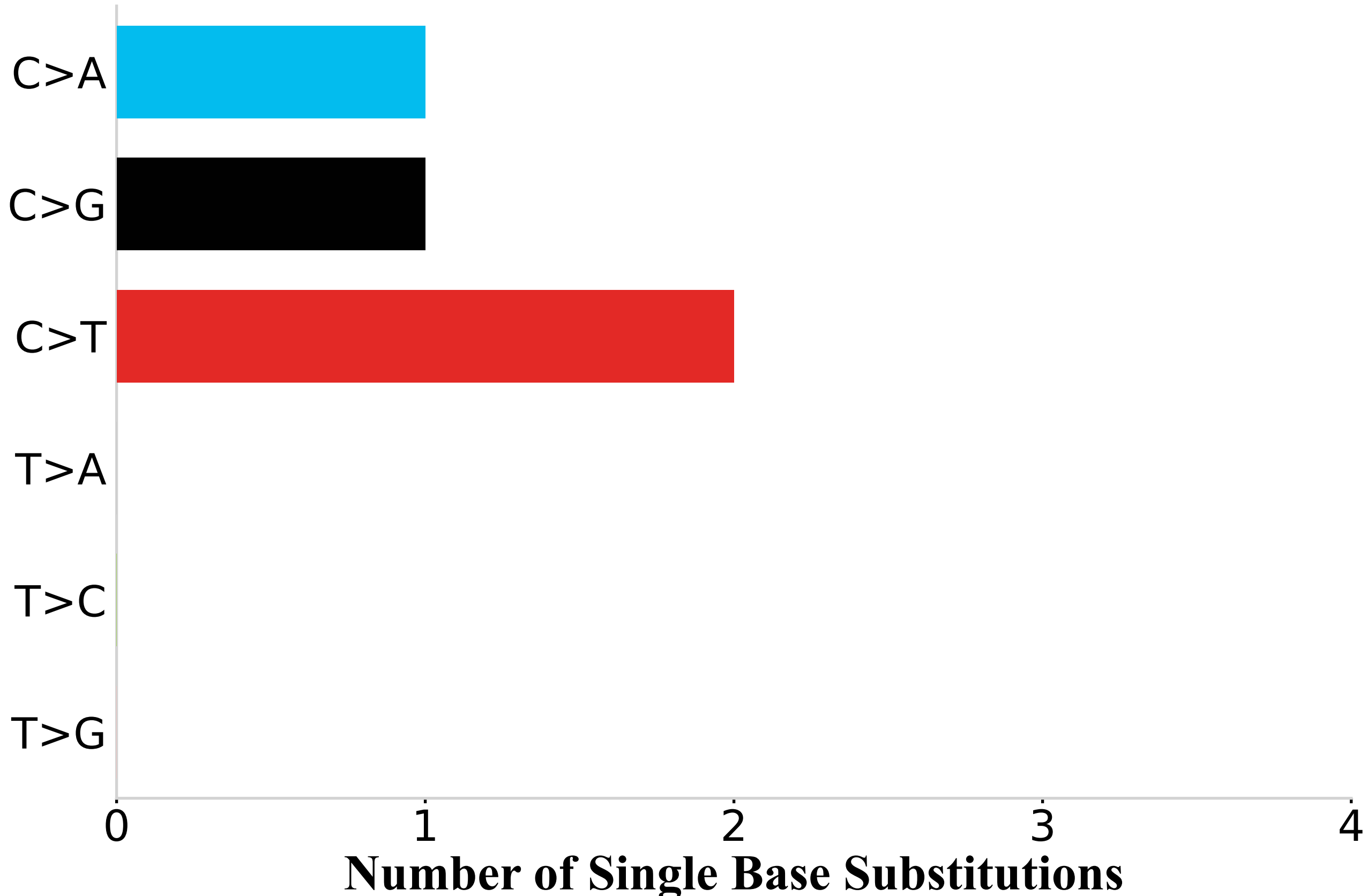
P-0038407-T01-IM6: 6 subs



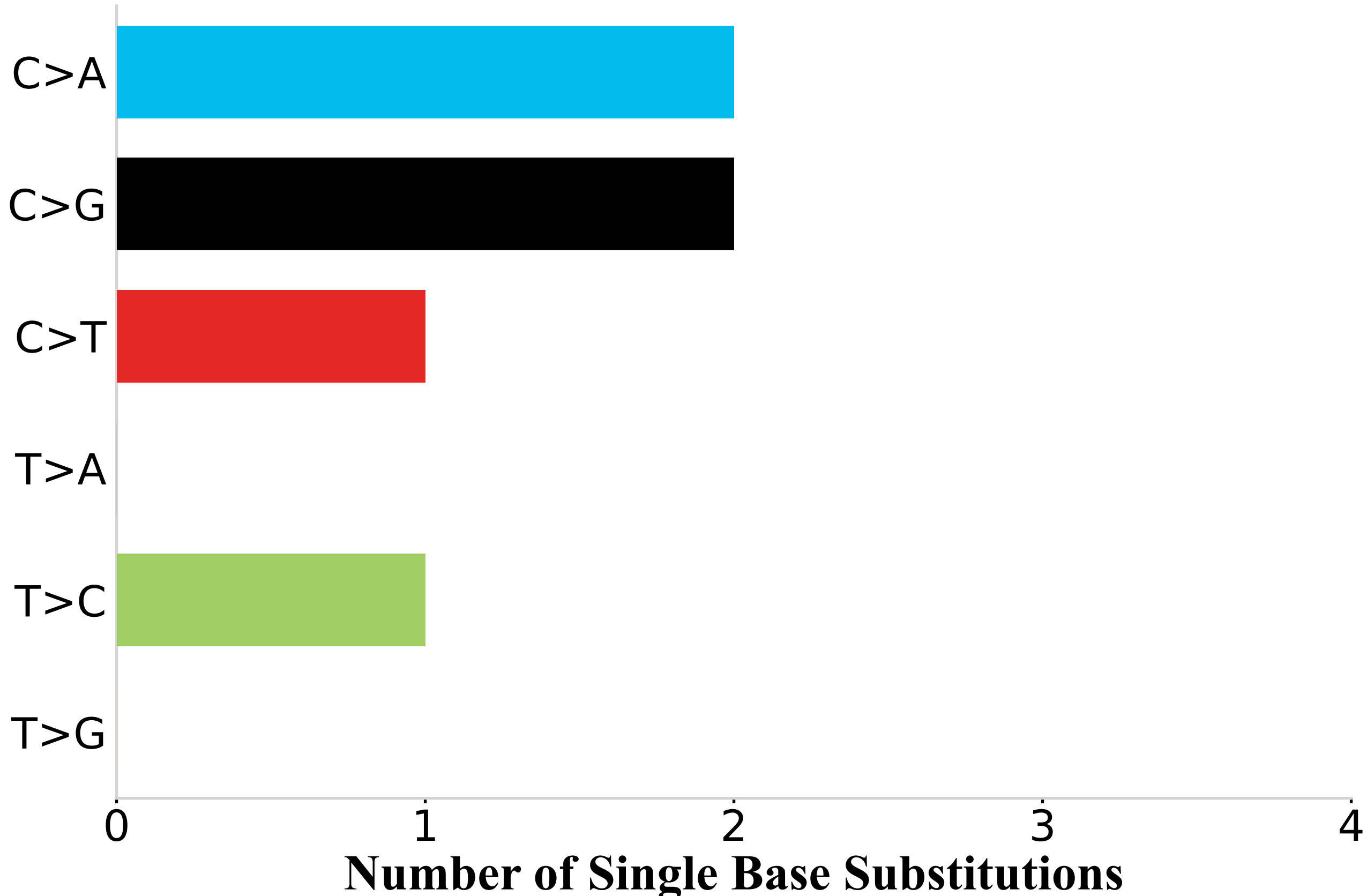
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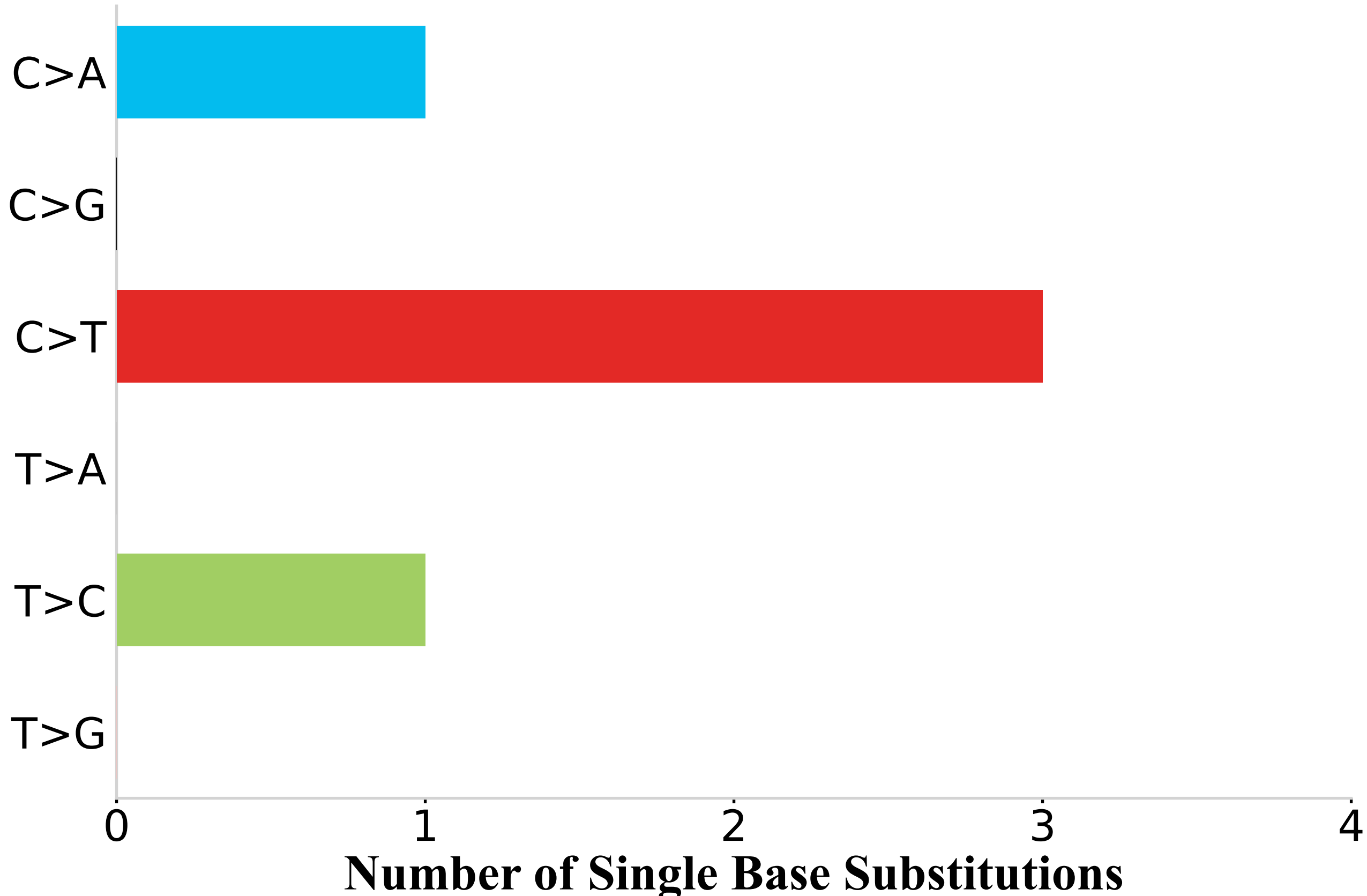
P-0038538-T01-IM6: 4 subs



P-0038540-T01-IM6: 6 subs



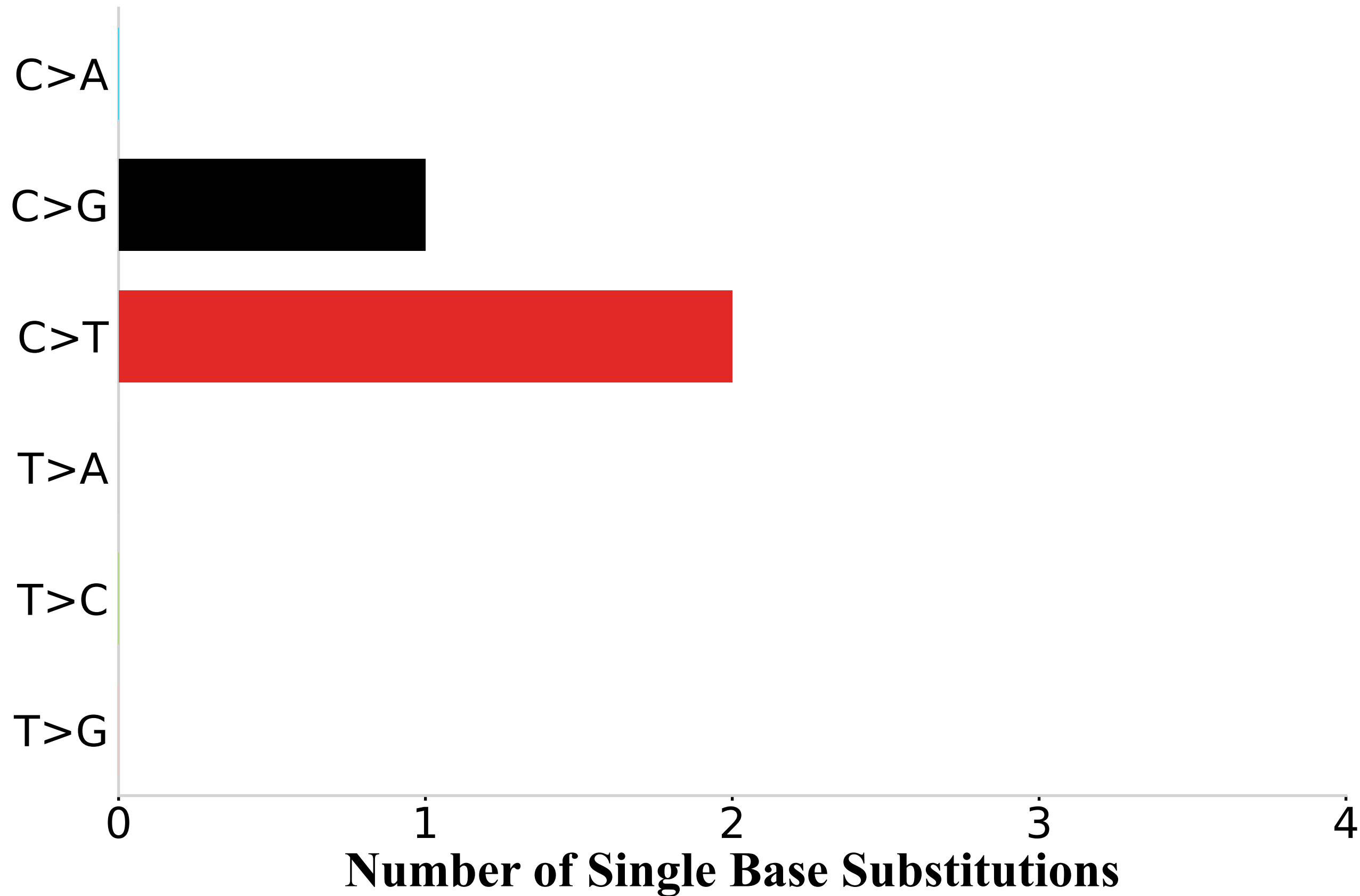
P-0038907-T01-IM6: 5 subs



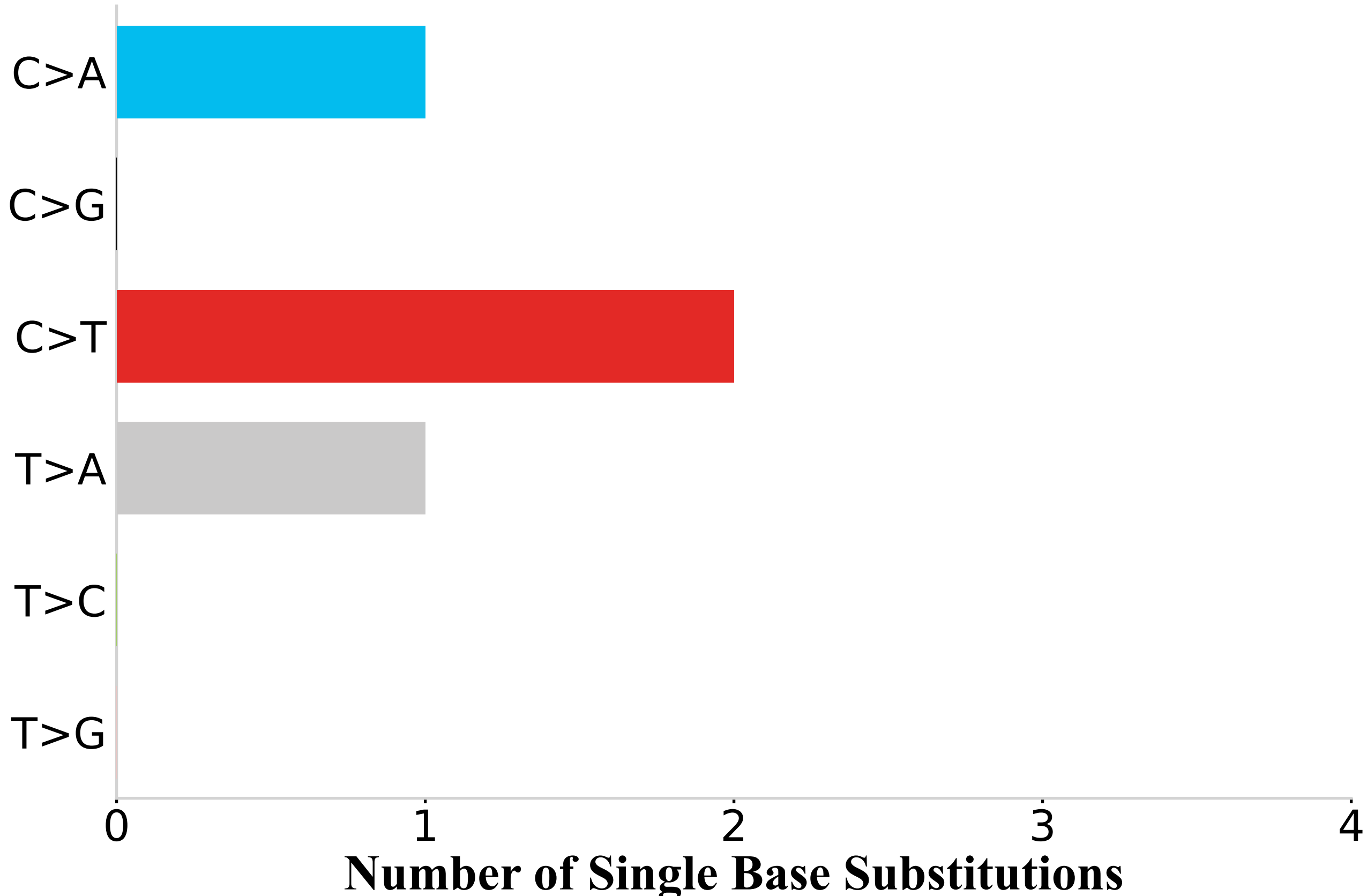
P-0039076-T01-IM6: 1 subs



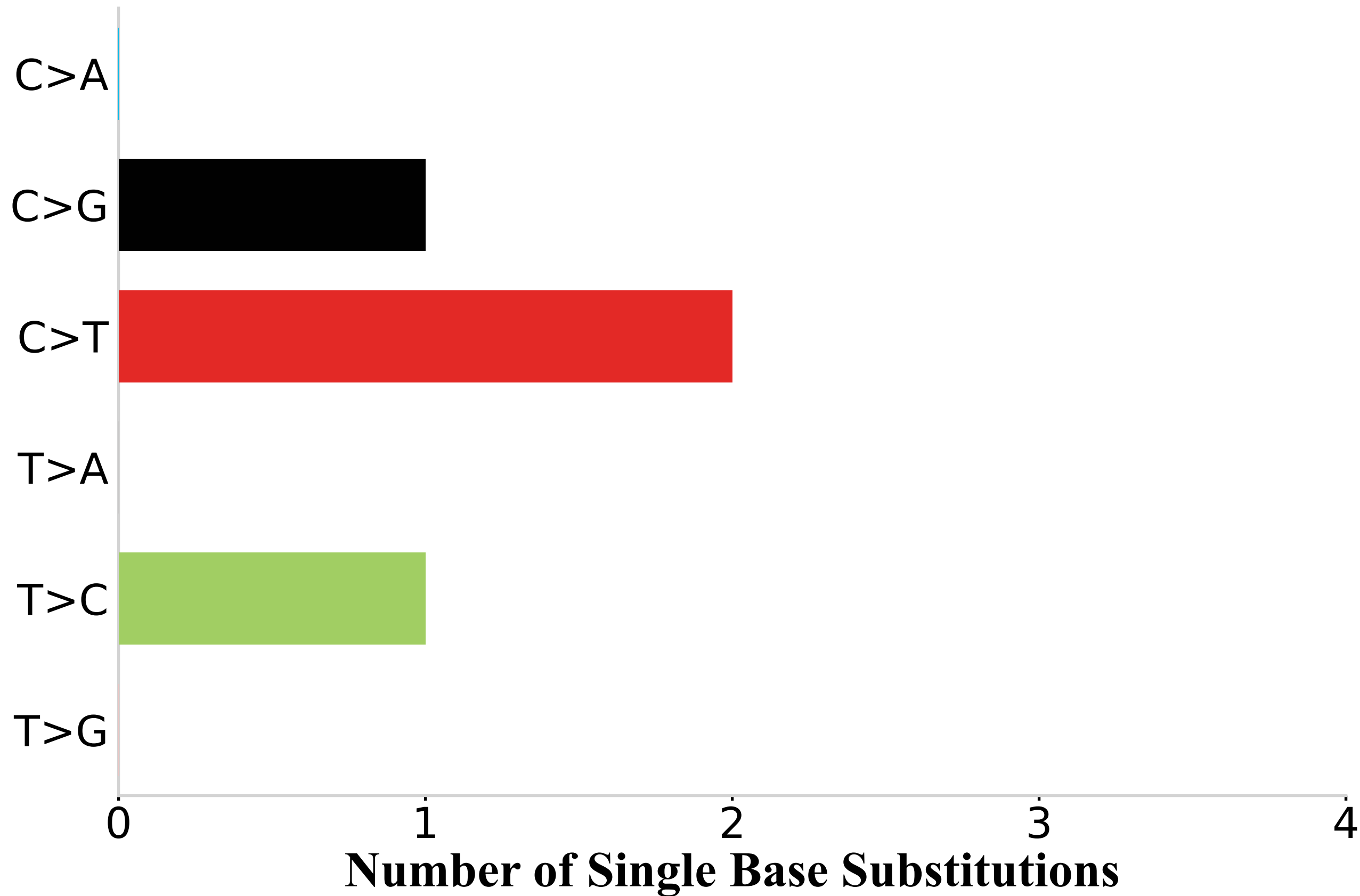
P-0039161-T01-IM6: 3 subs



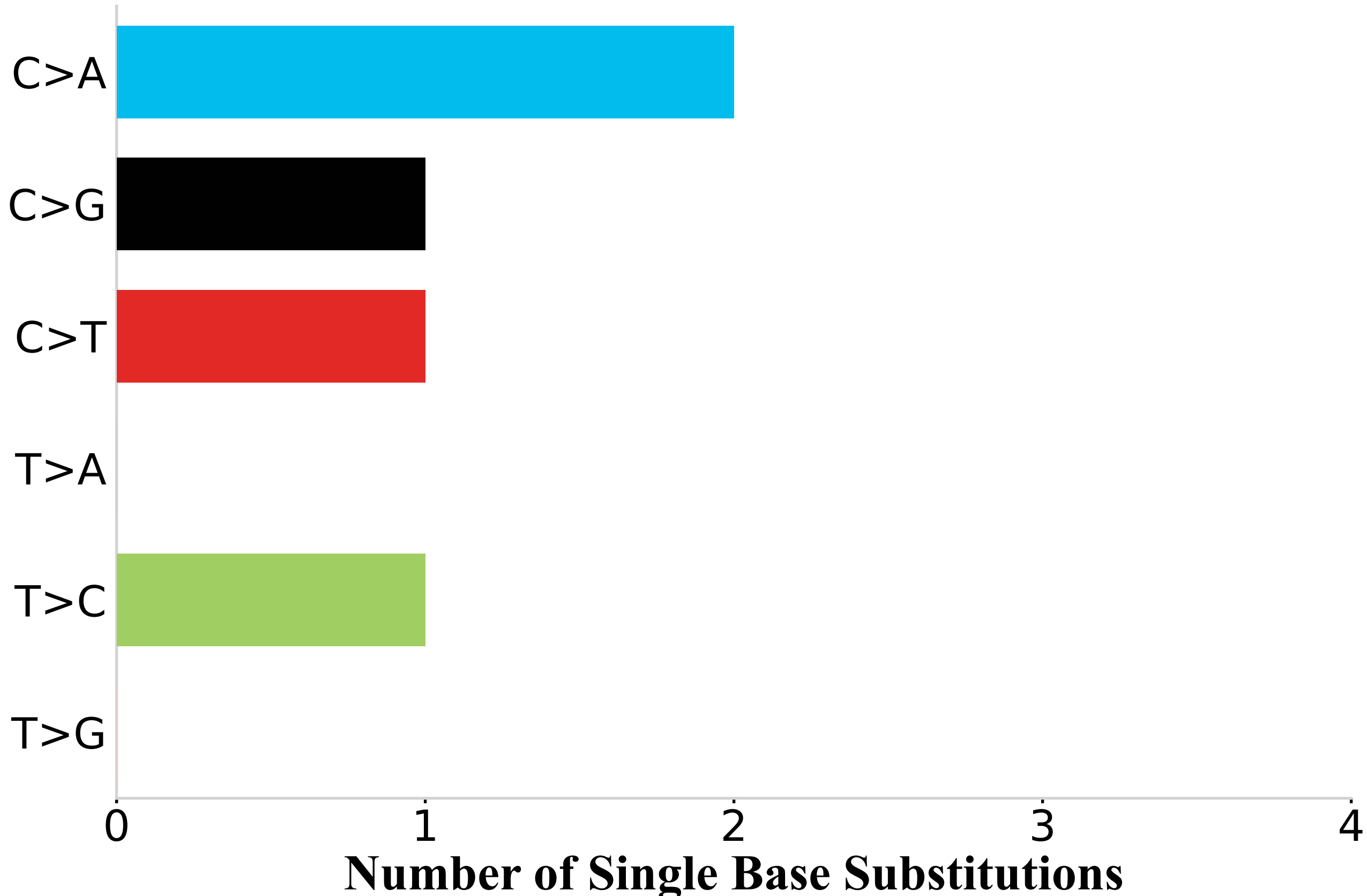
P-0039369-T01-IM6: 4 subs



P-0039439-T01-IM6: 4 subs



P-0039459-T01-IM6: 5 subs



P-0039694-T01-IM6: 4 subs

C>A

C>G

C>T

T>A

T>C

T>G

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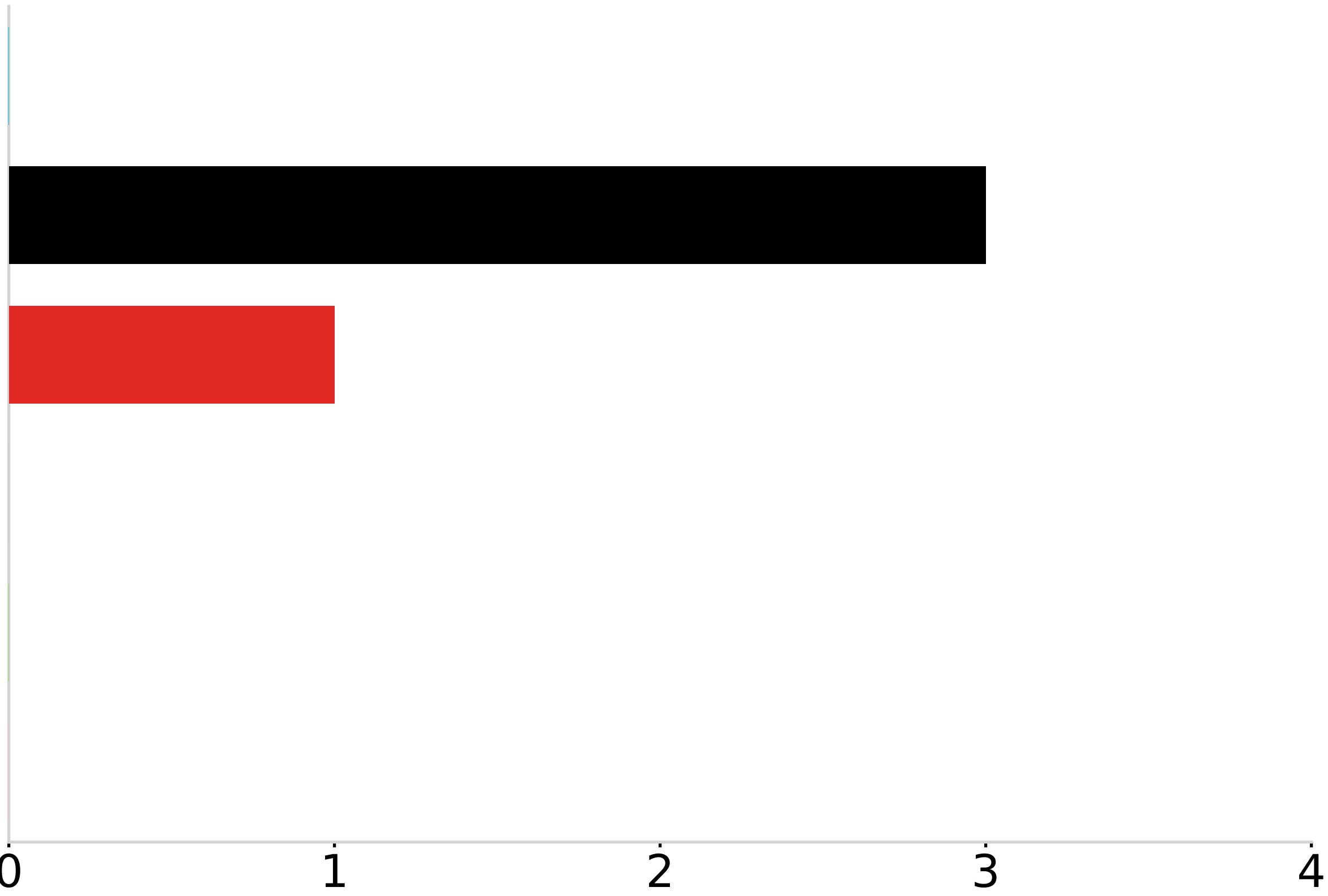
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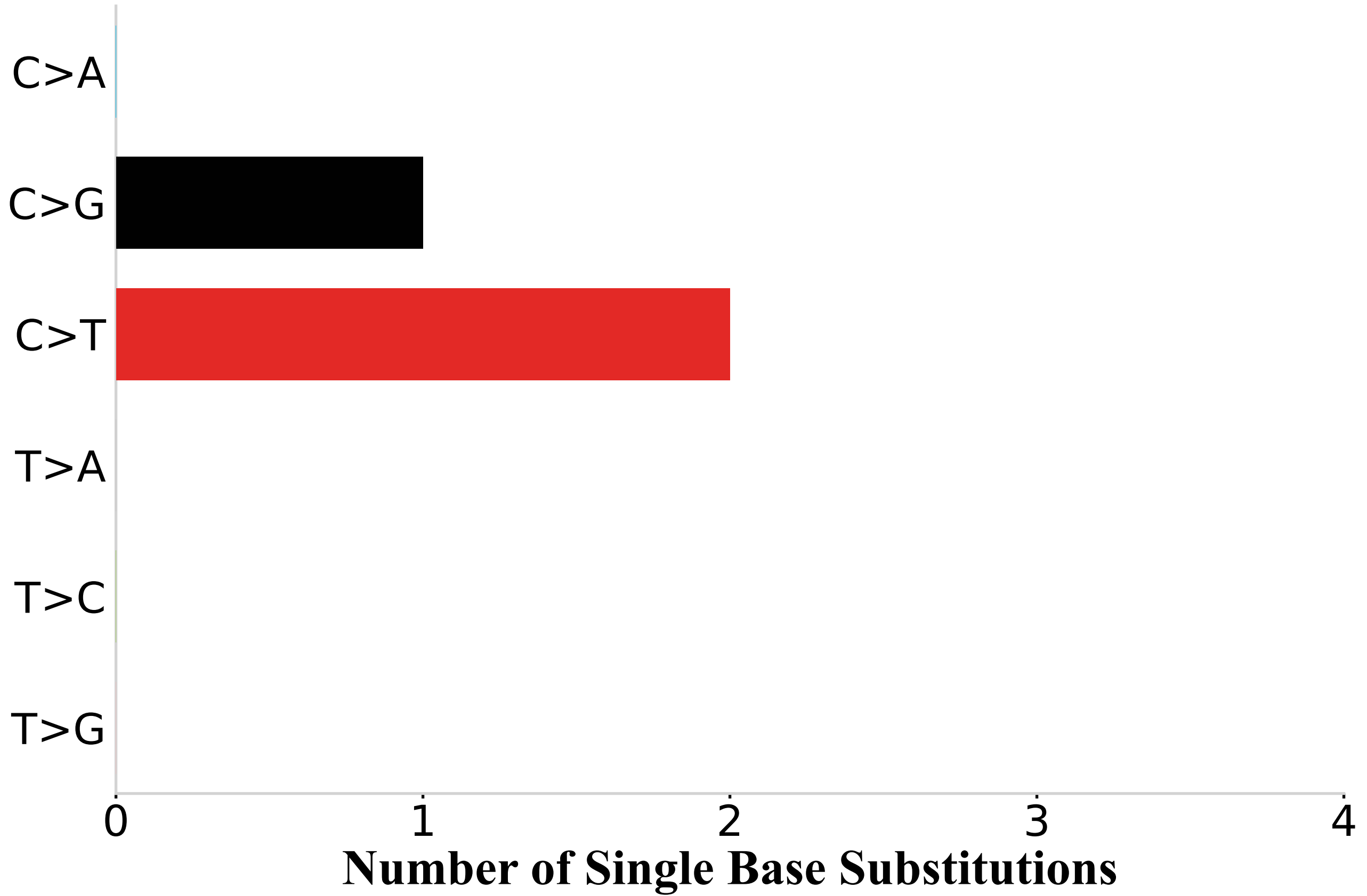
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4

Number of Single Base Substitutions



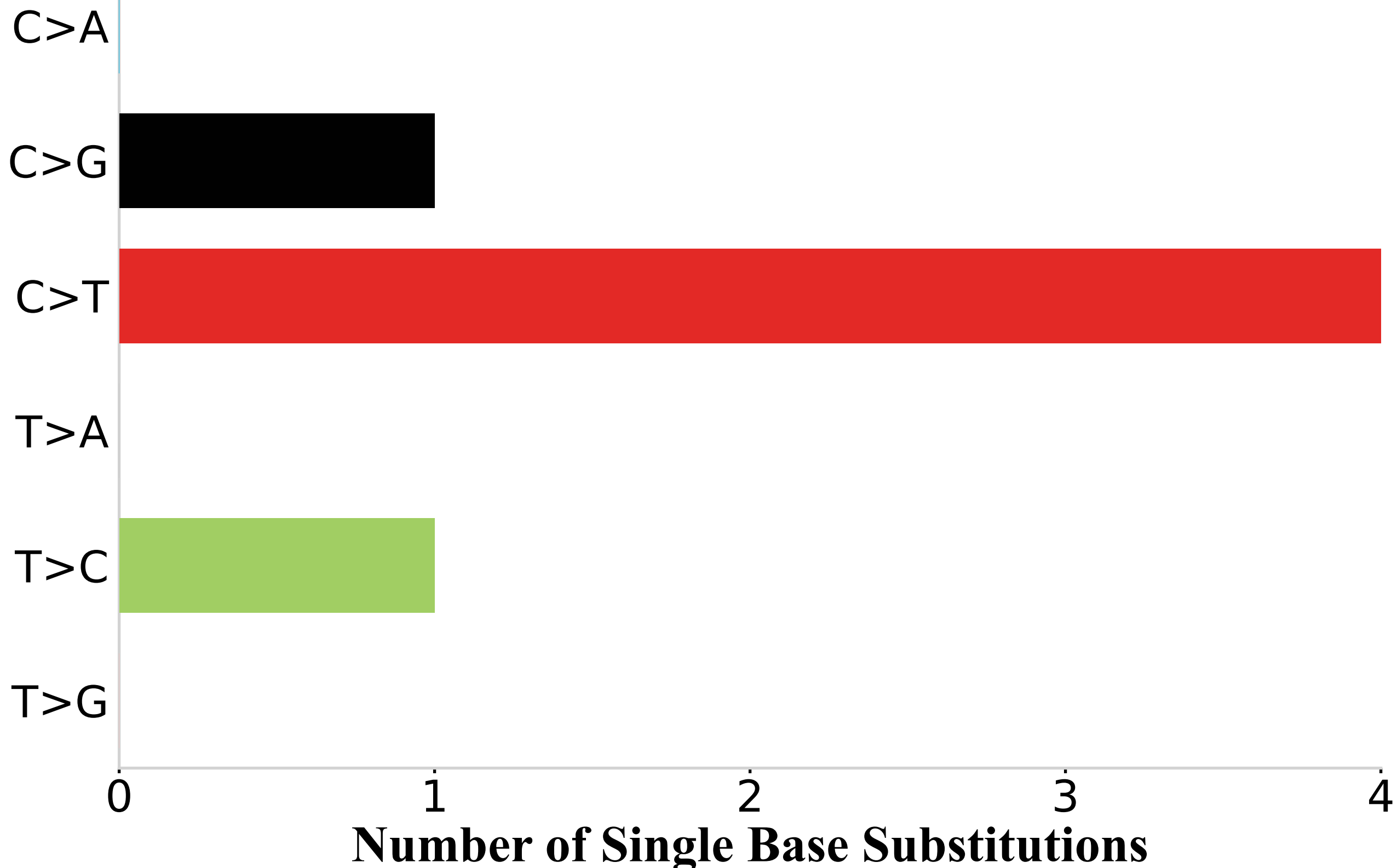
P-0039735-T01-IM6: 3 subs



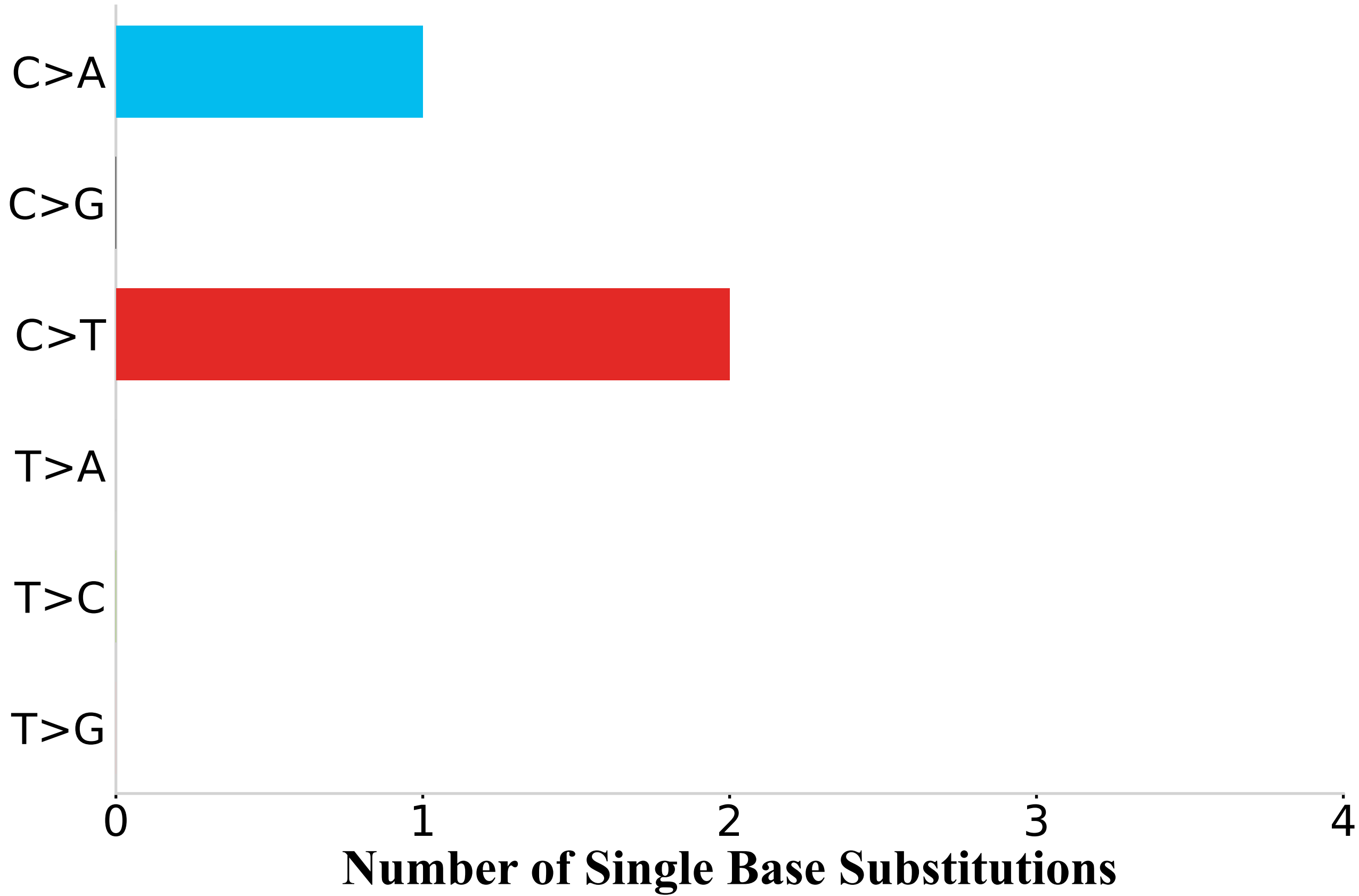
P-0040176-T01-IM6: 2 subs



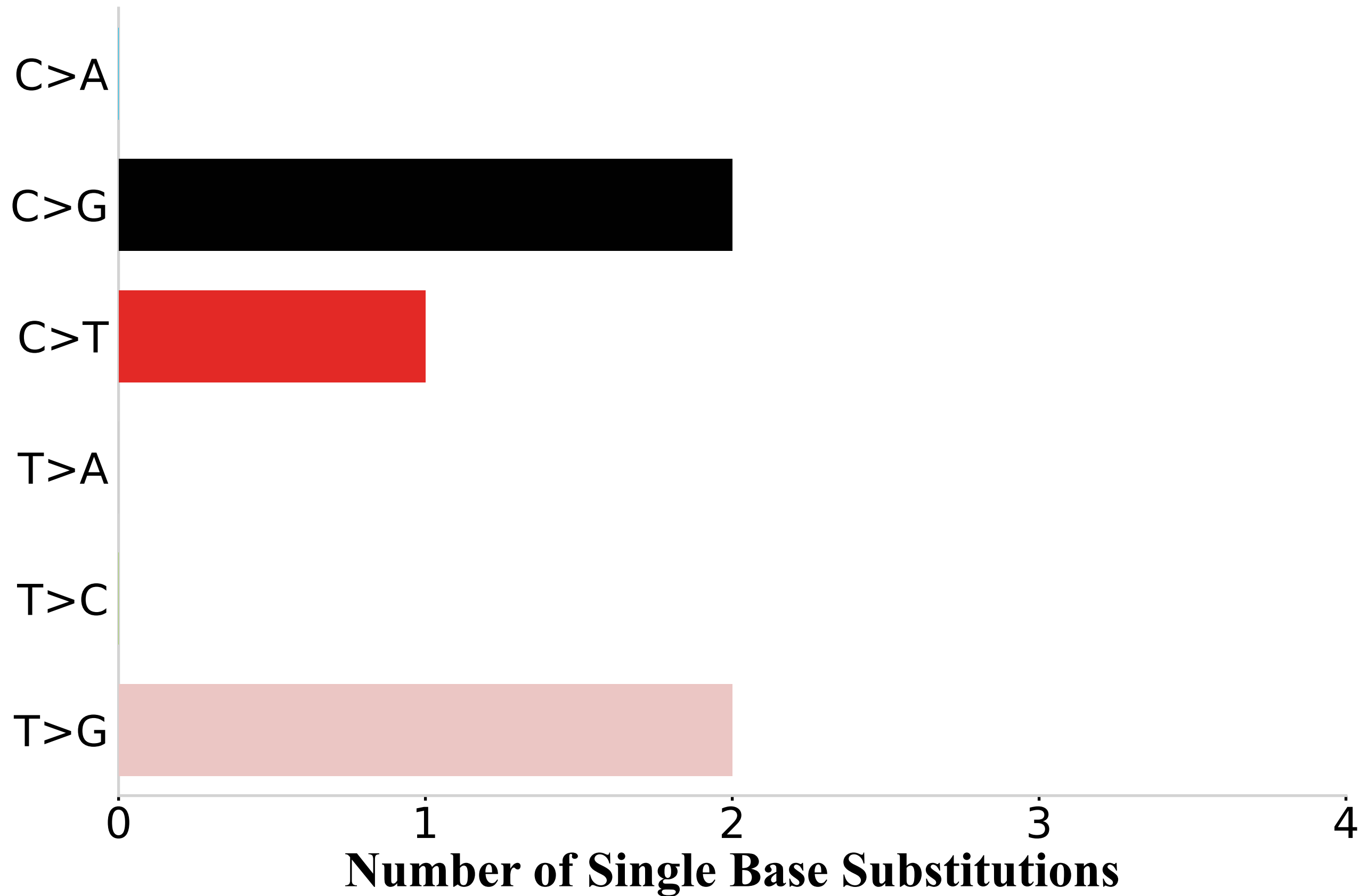
P-0040280-T01-IM6: 6 subs



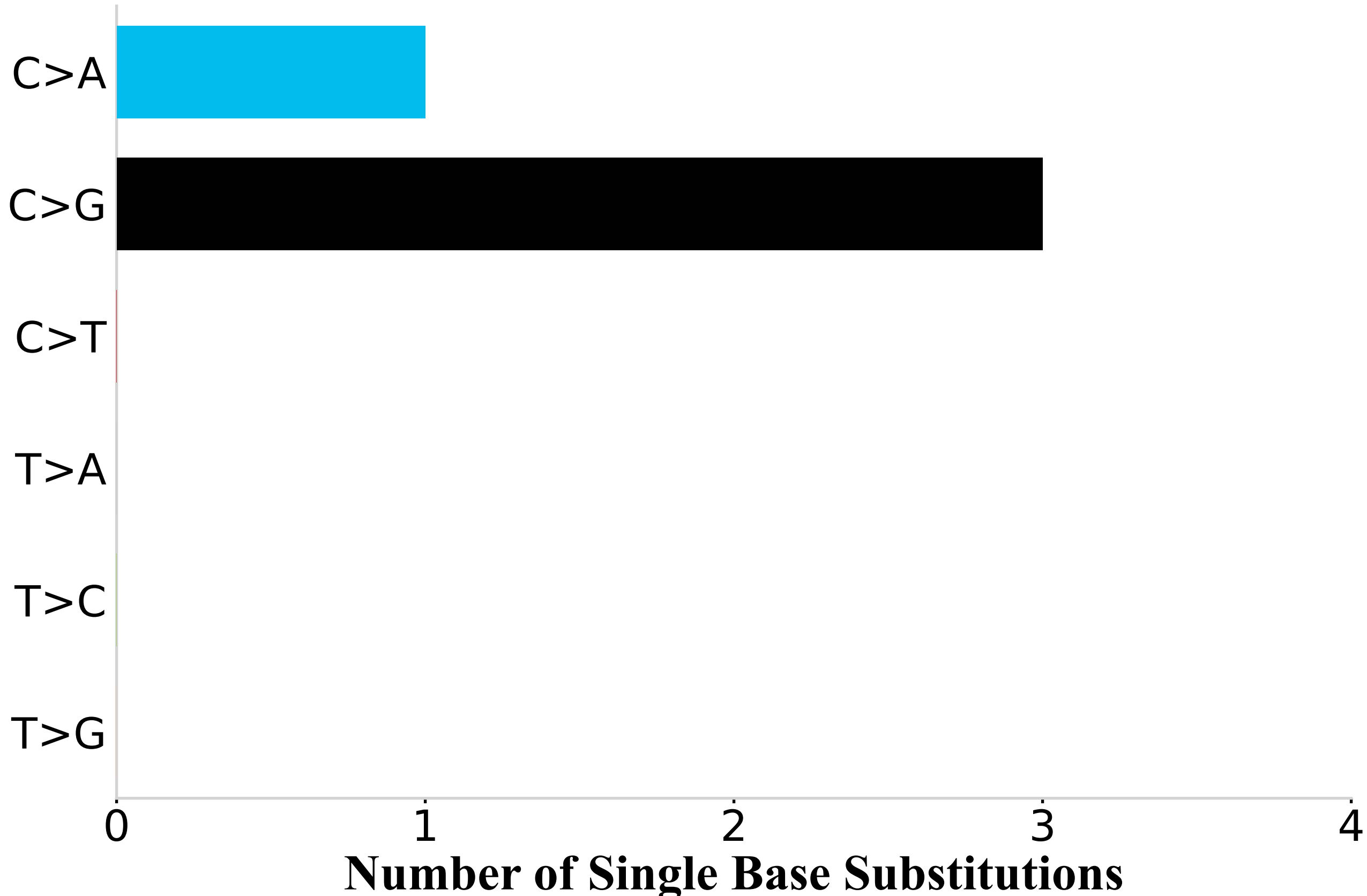
P-0040330-T01-IM6: 3 subs



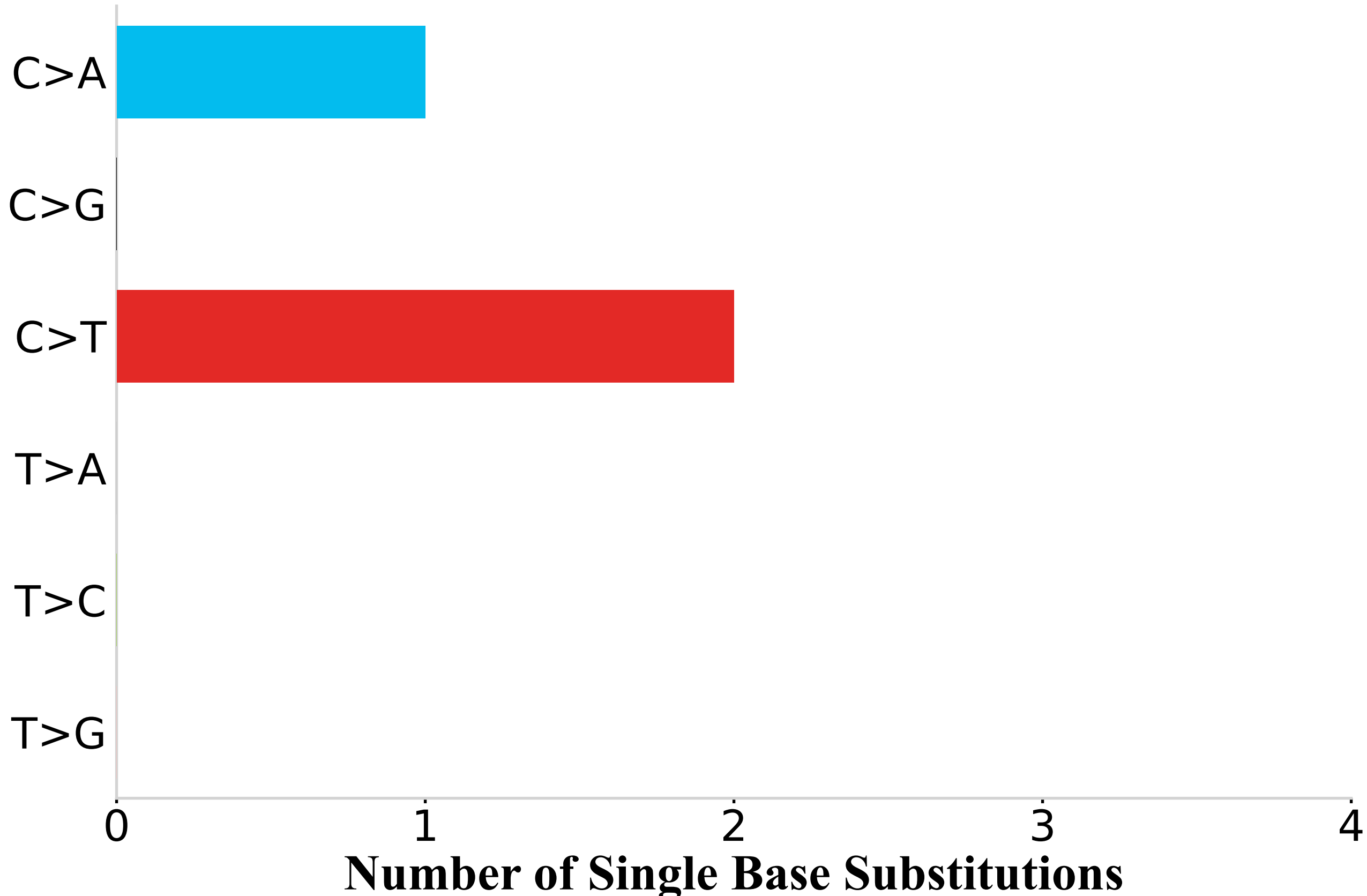
P-0040618-T01-IM6: 5 subs



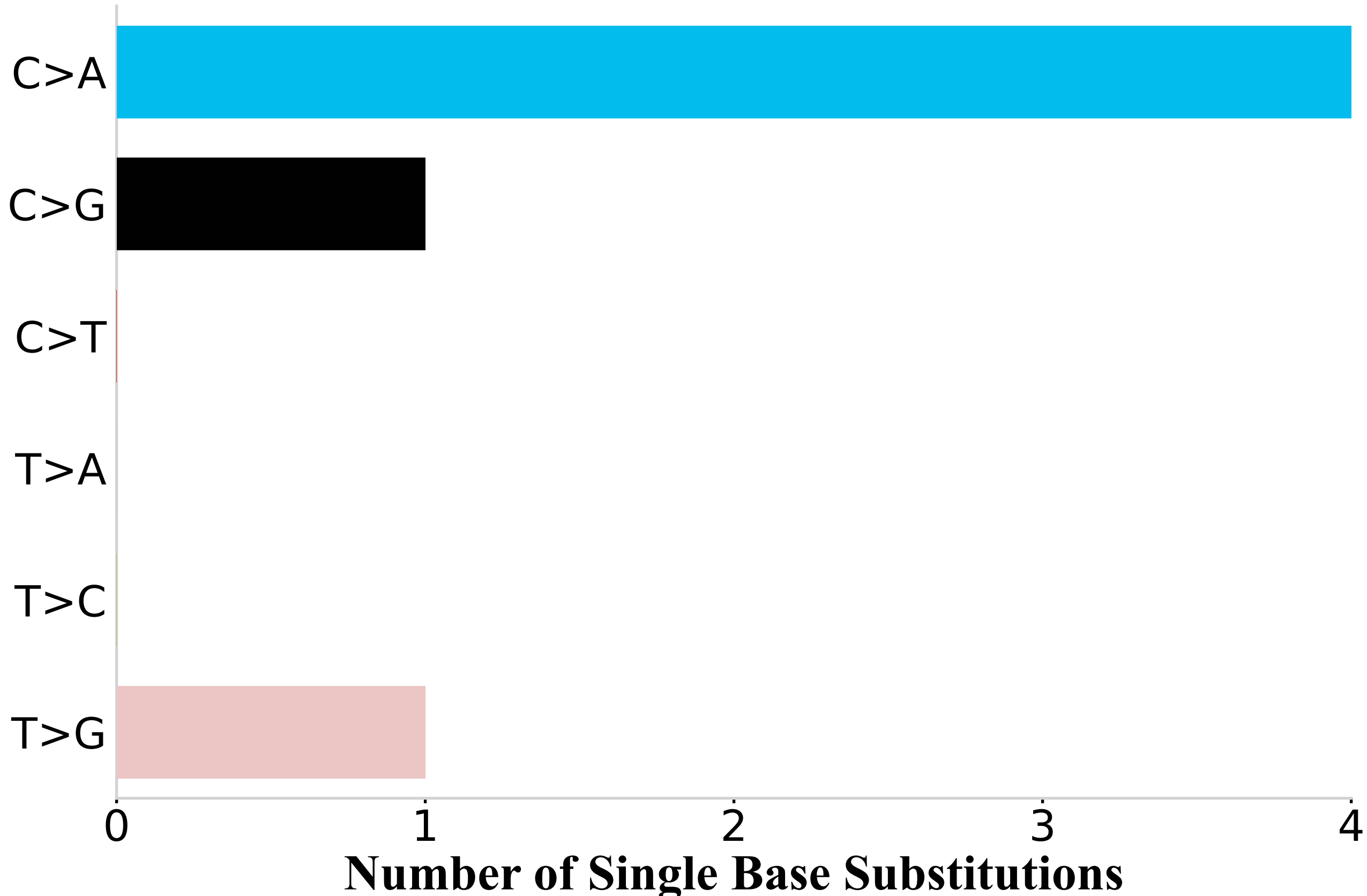
P-0040752-T01-IM6: 4 subs



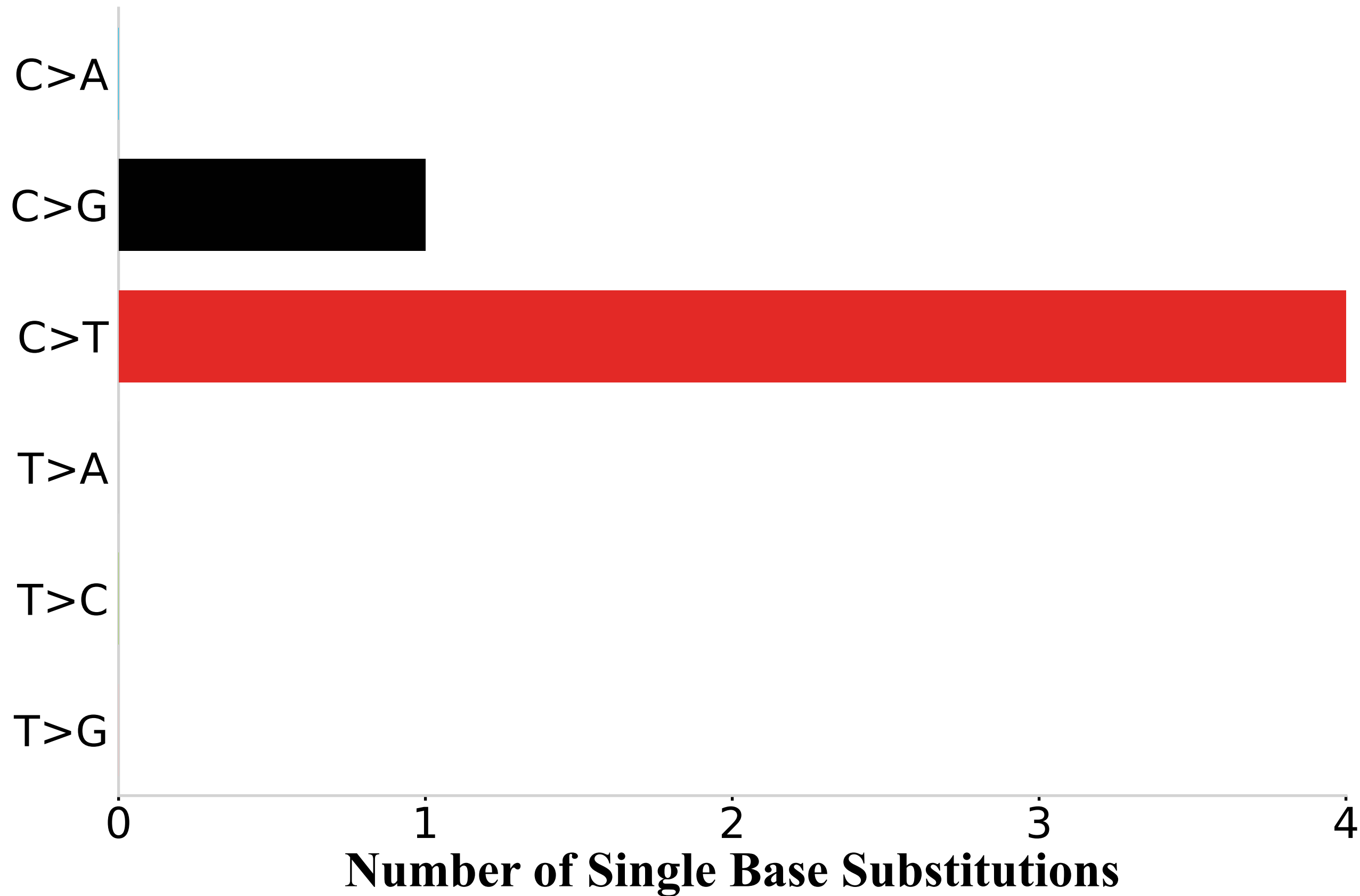
P-0040797-T01-IM6: 3 subs



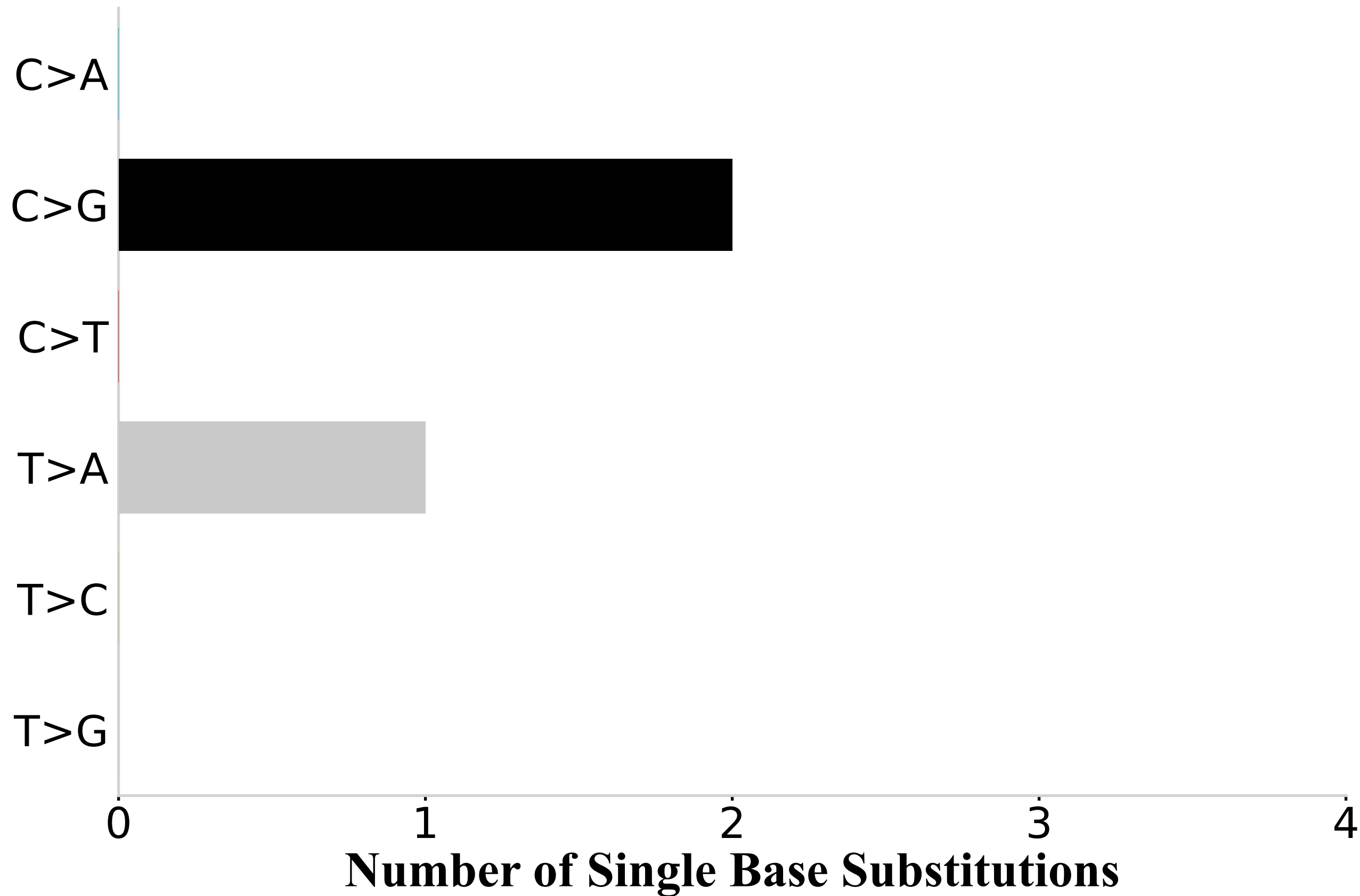
P-0040858-T01-IM6: 6 subs



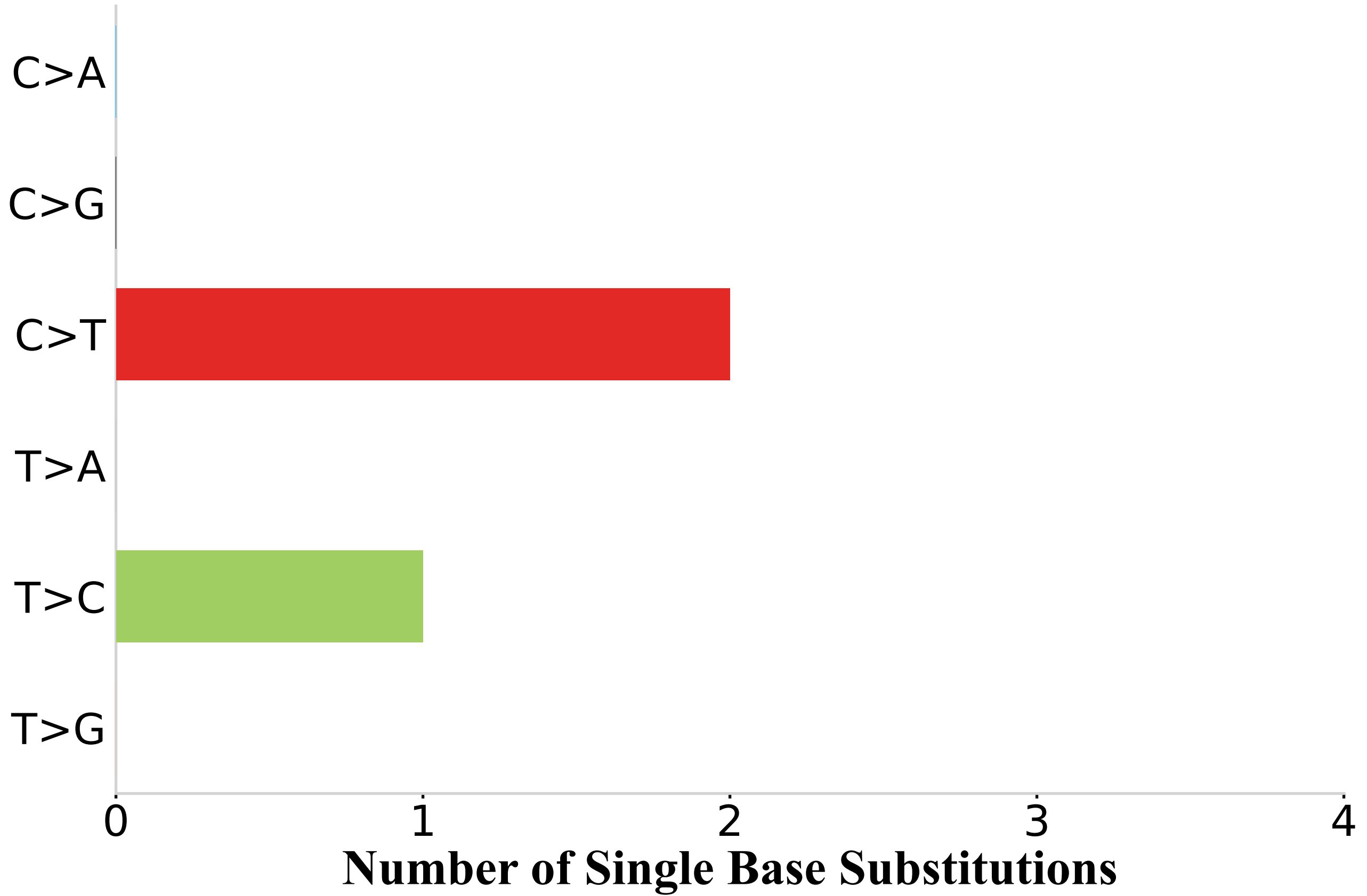
P-0041051-T01-IM6: 5 subs



P-0041203-T01-IM6: 3 subs



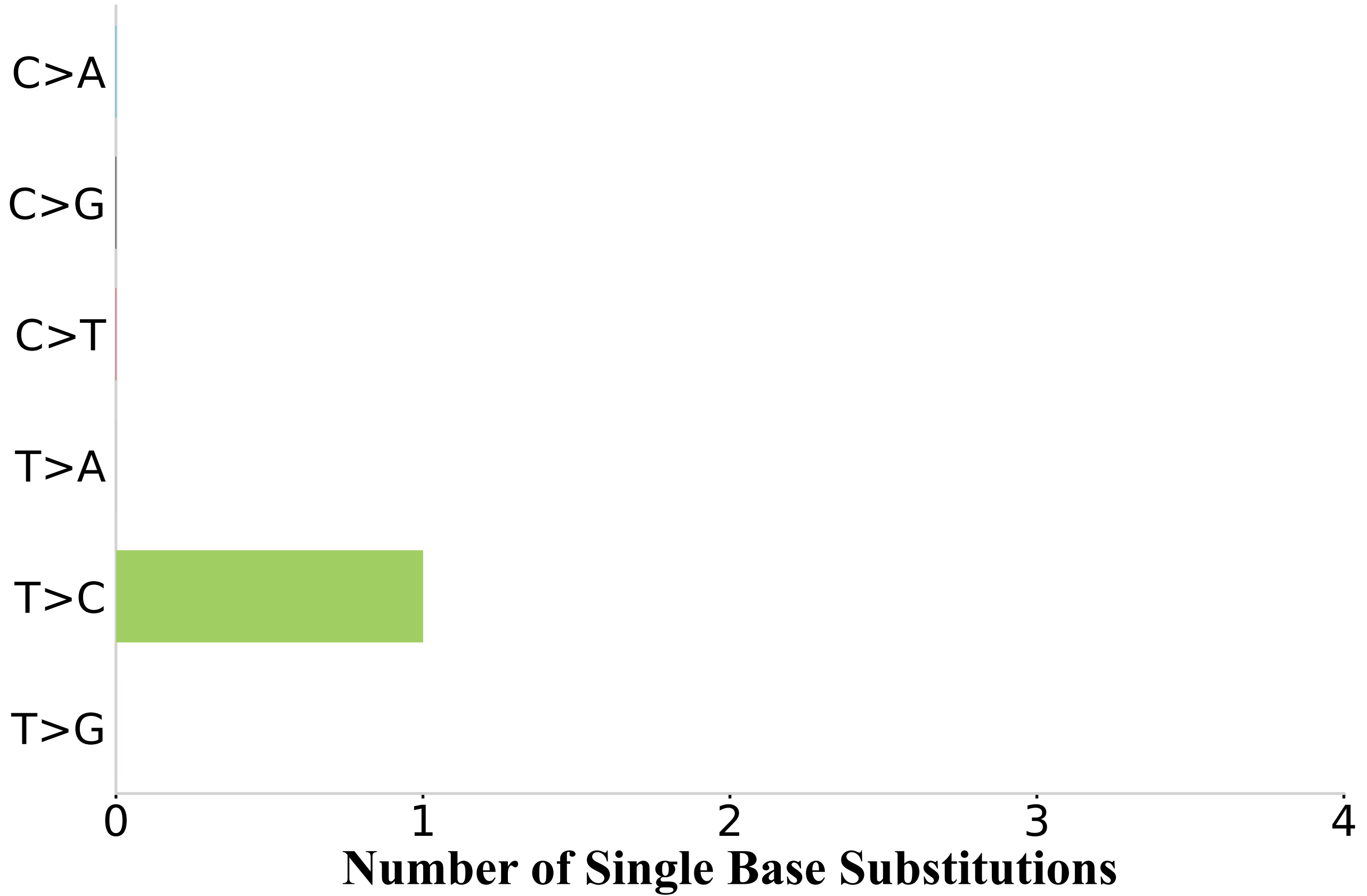
P-0041276-T01-IM6: 3 subs



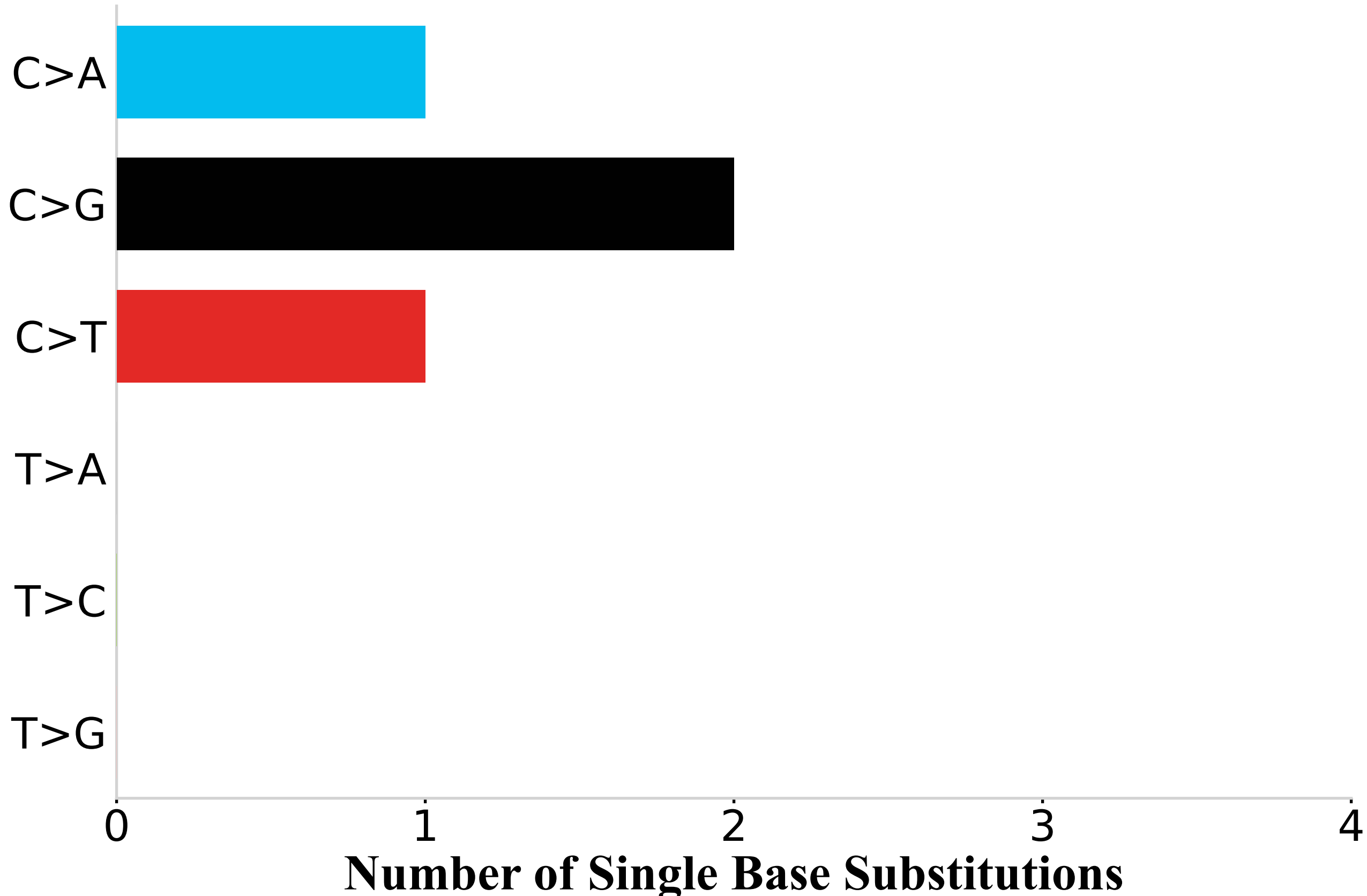
P-0041303-T01-IM6: 4 subs



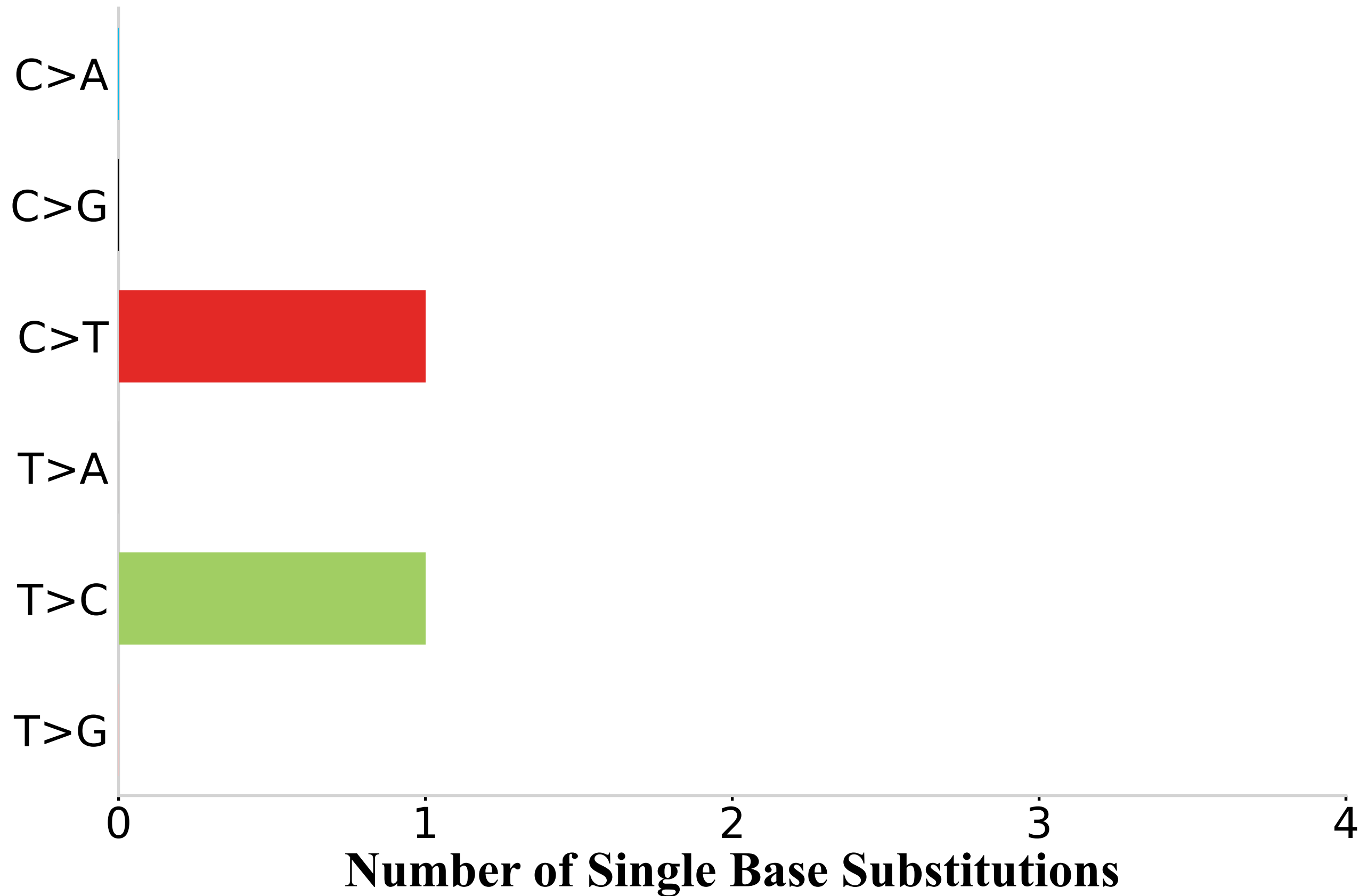
P-0041412-T01-IM6: 1 subs



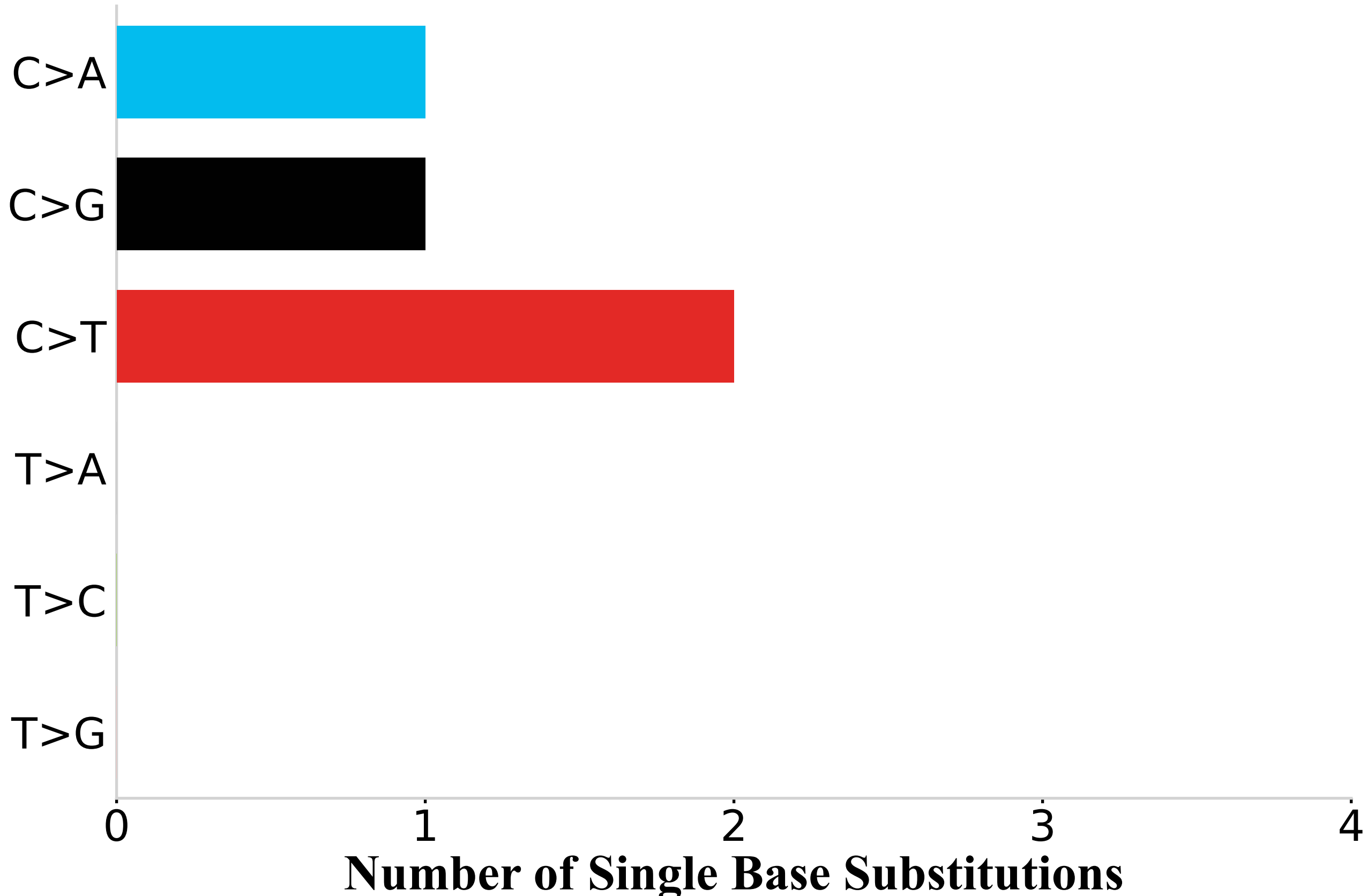
P-0041547-T01-IM6: 4 subs



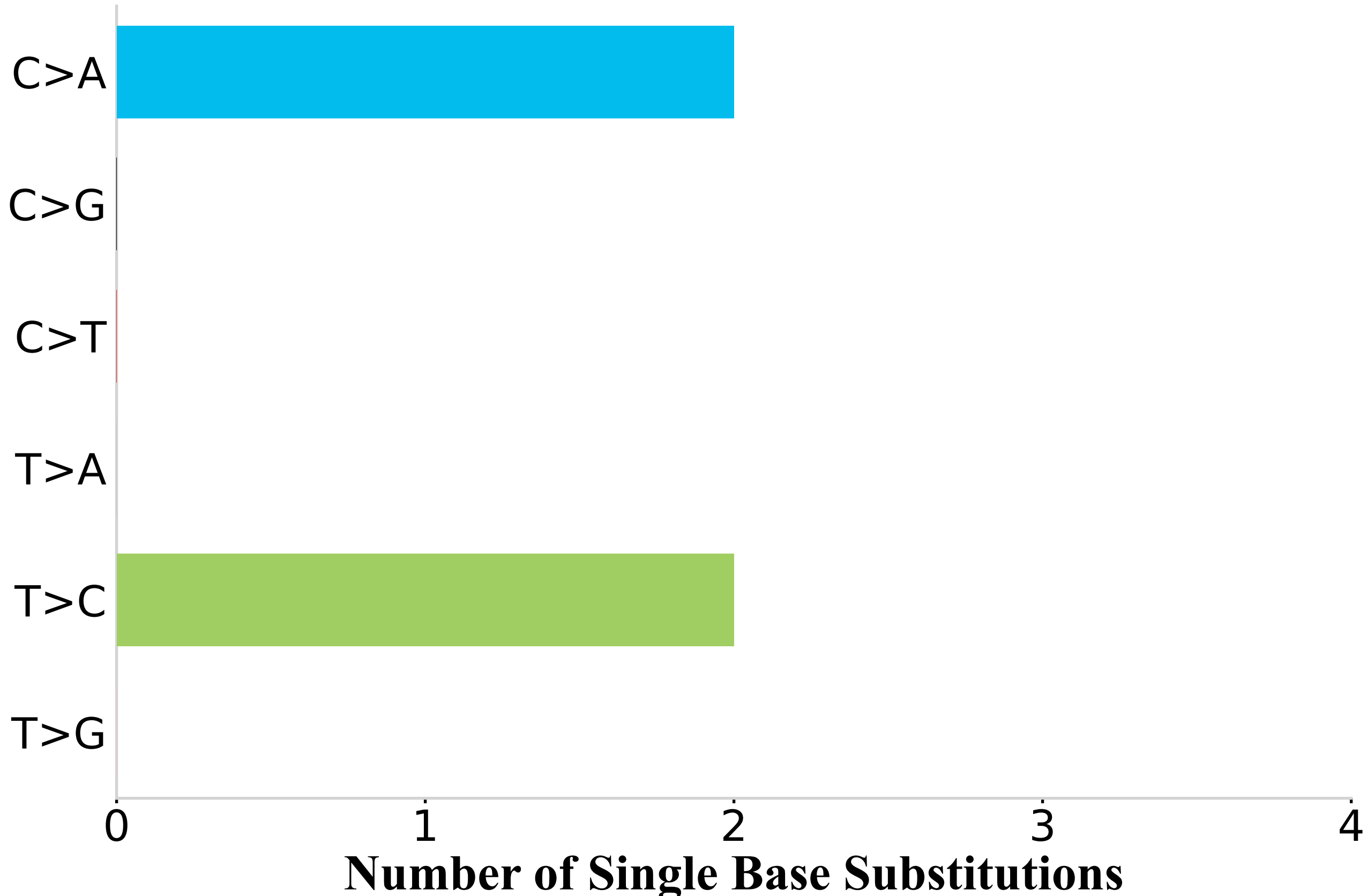
P-0041621-T01-IM6: 2 subs



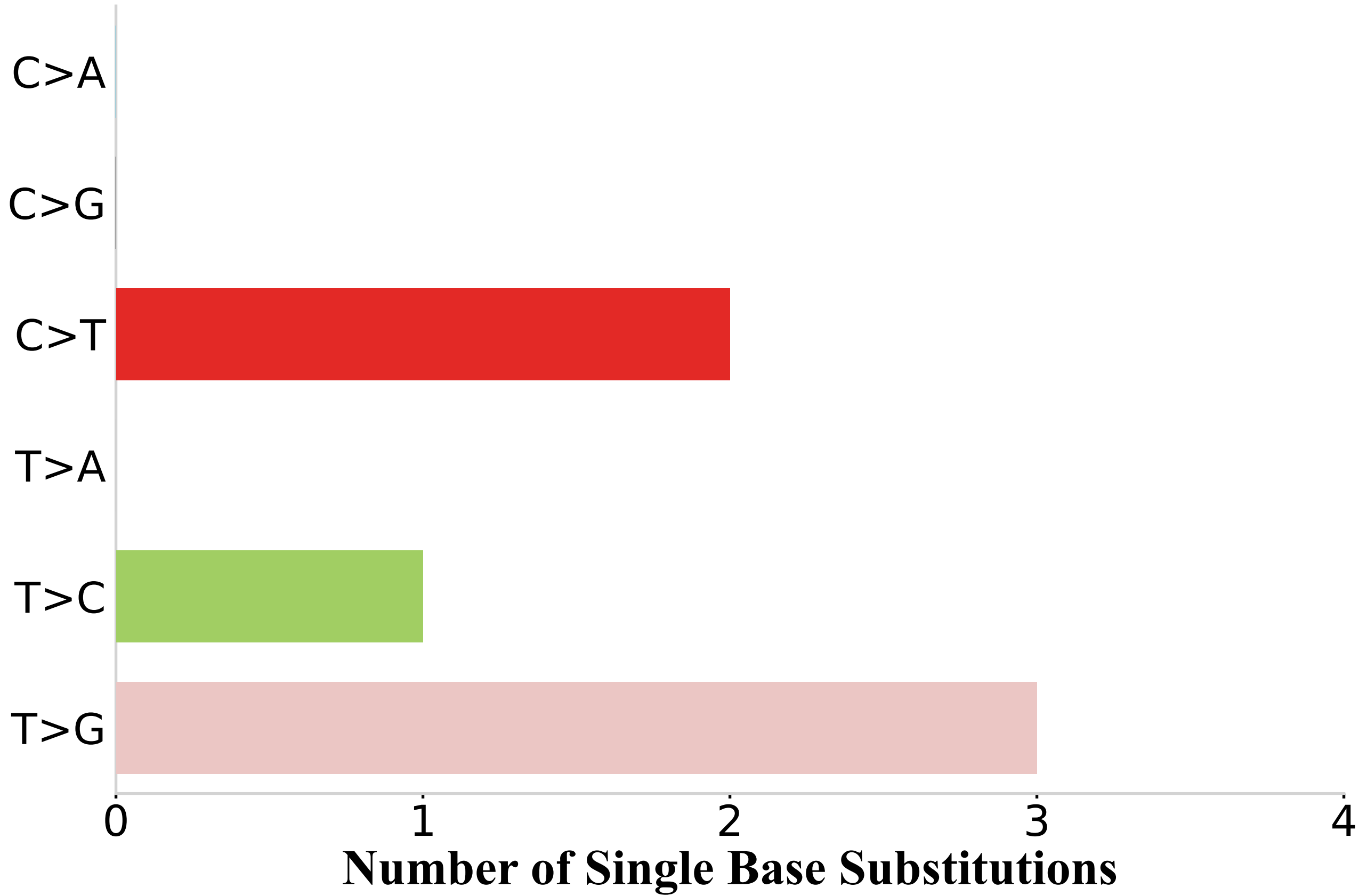
P-0041865-T01-IM6: 4 subs



P-0041937-T01-IM6: 4 subs



P-0042101-T01-IM6: 6 subs



P-0042257-T01-IM6: 4 subs

C>A

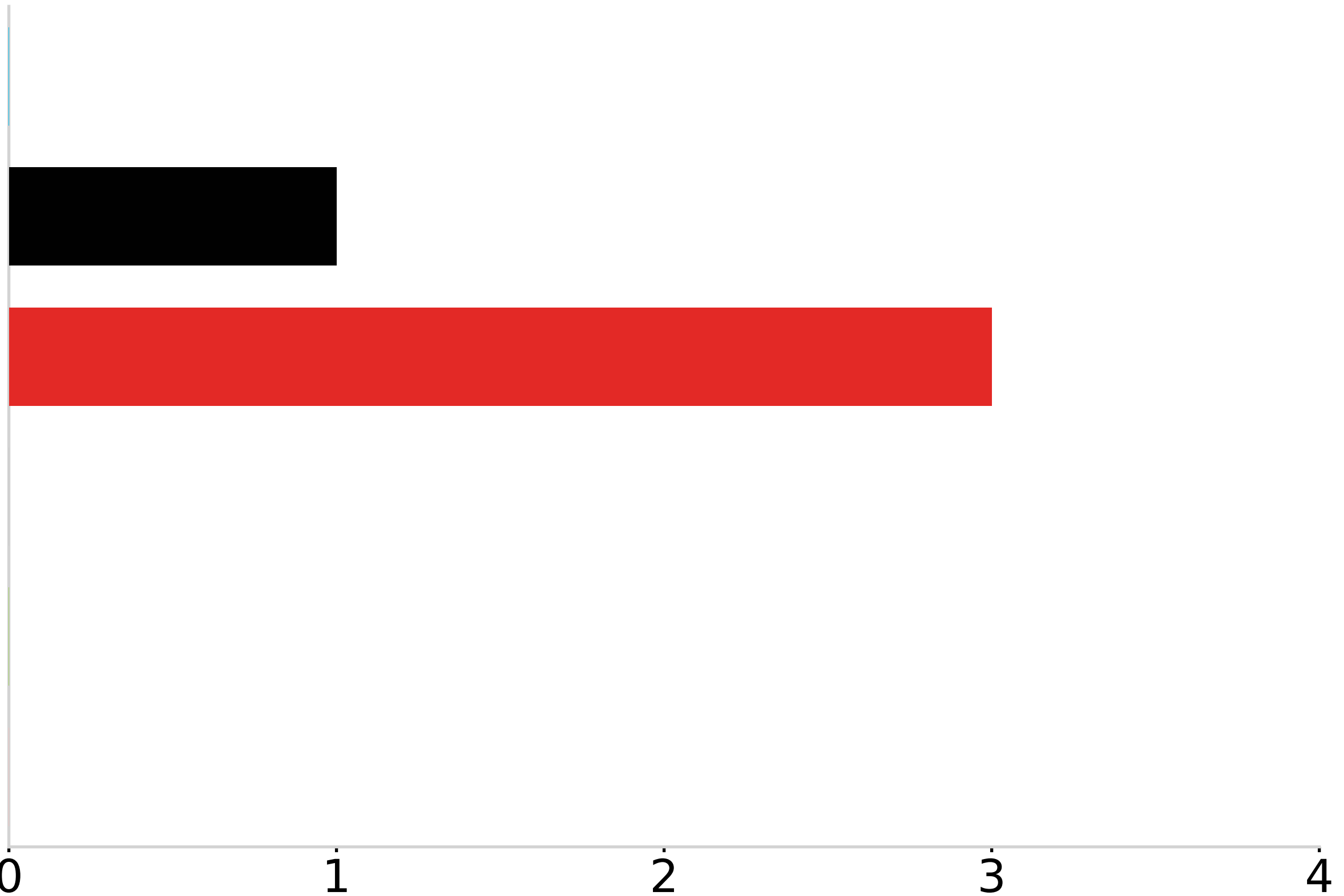
C>G

C>T

T>A

T>C

T>G

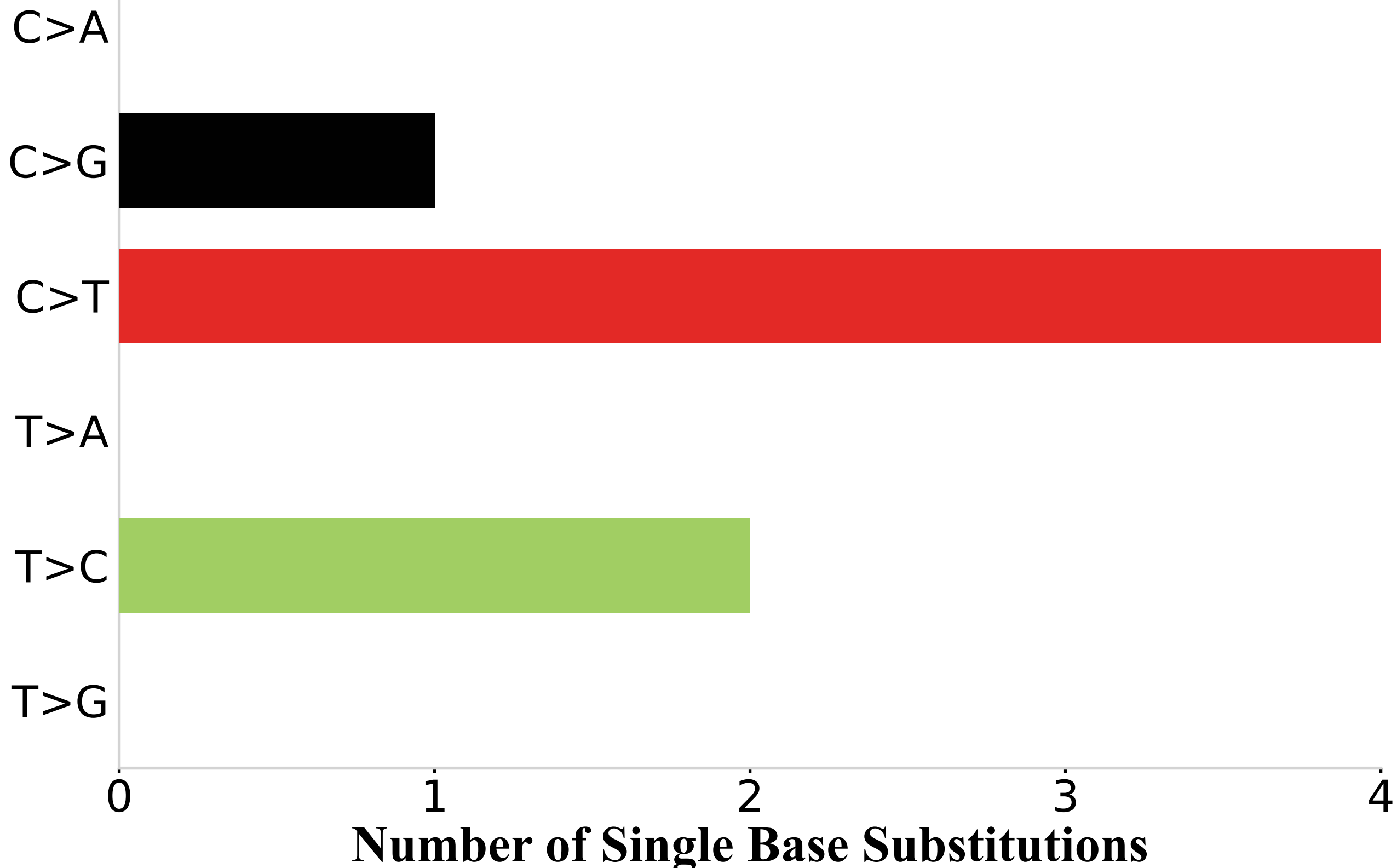


Number of Single Base Substitutions

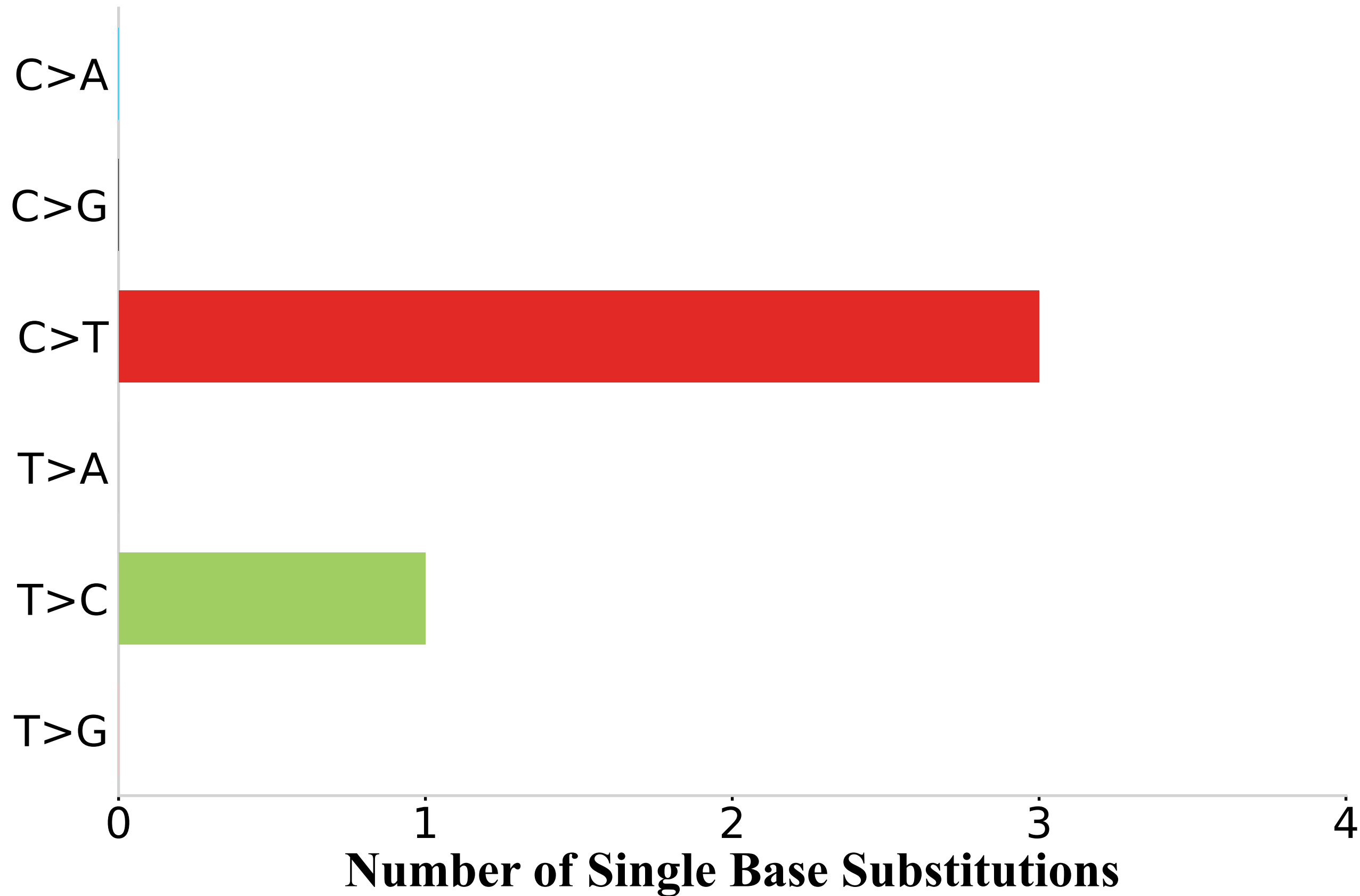
P-0042482-T01-IM6: 2 subs



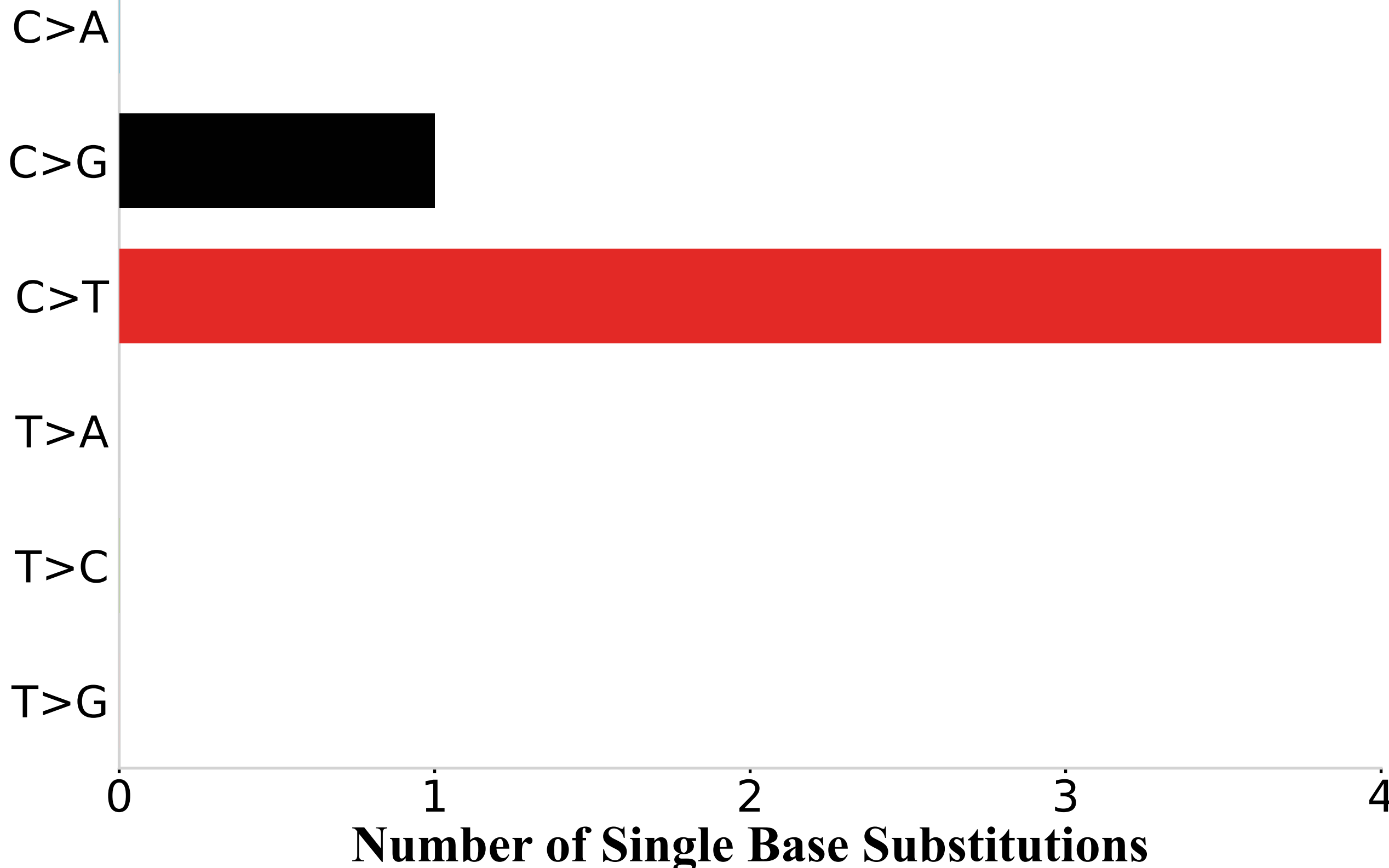
P-0042621-T01-IM6: 7 subs



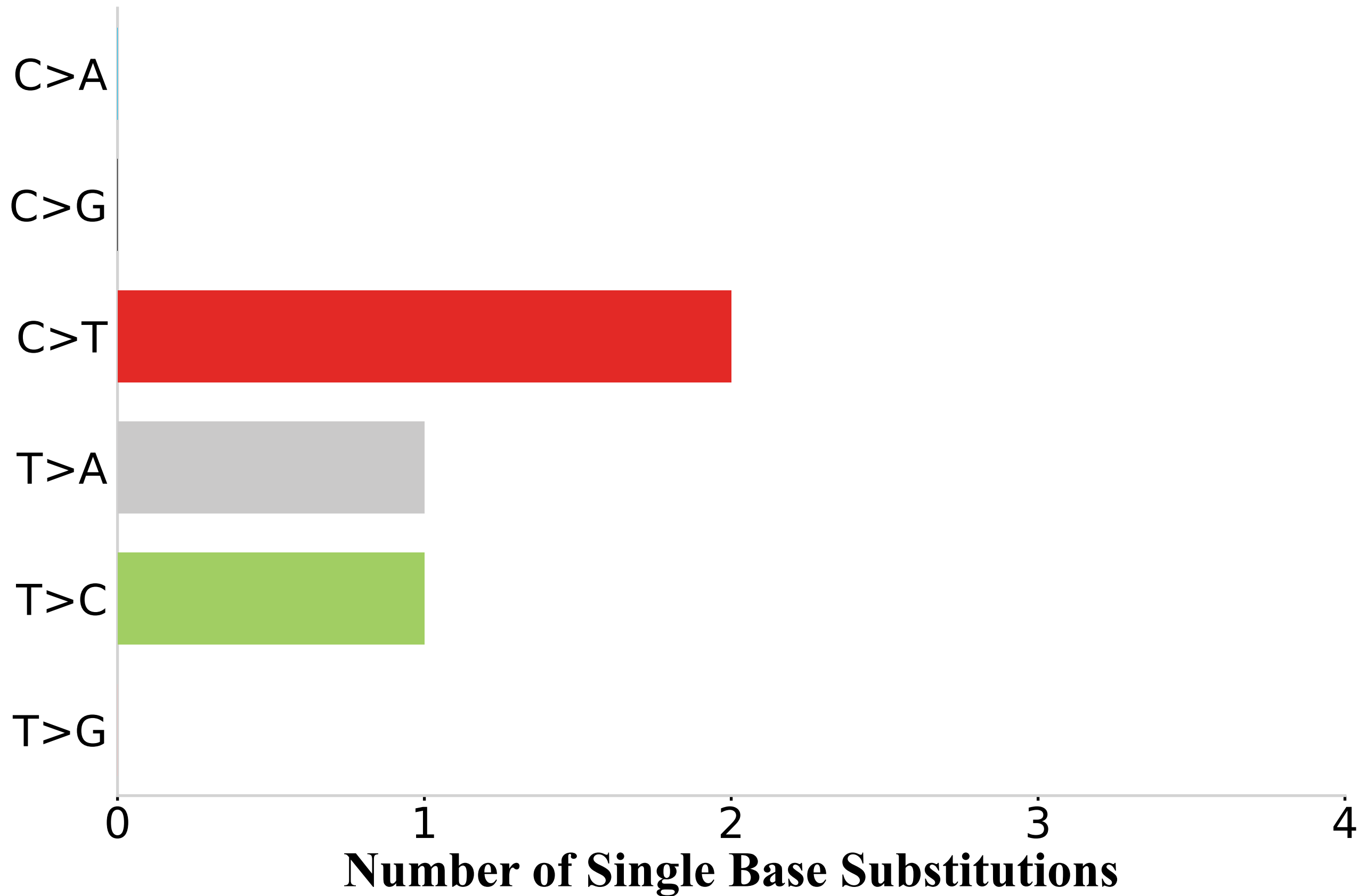
P-0042641-T01-IM6: 4 subs



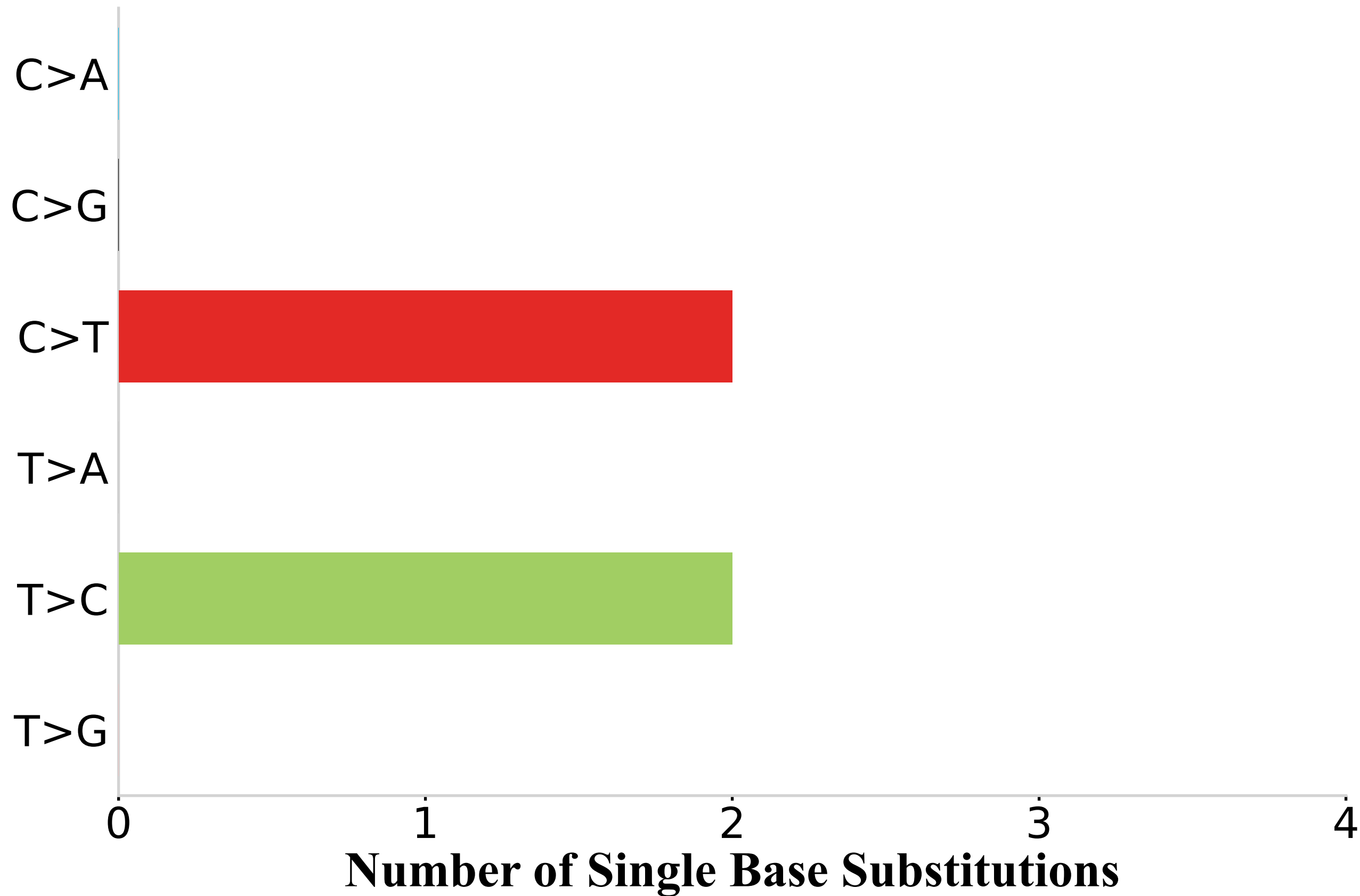
P-0042654-T01-IM6: 5 subs



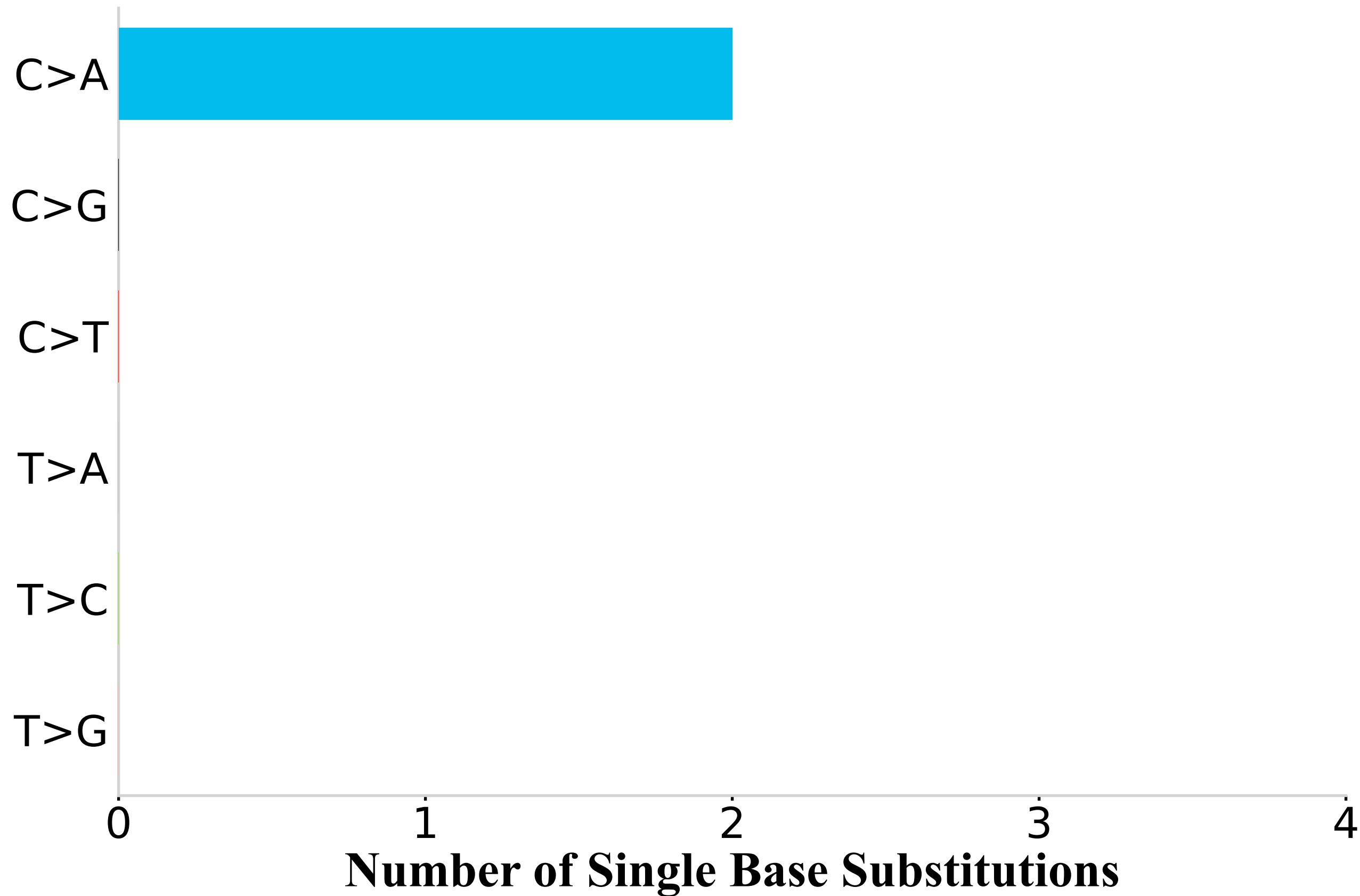
P-0042801-T01-IM6: 4 subs



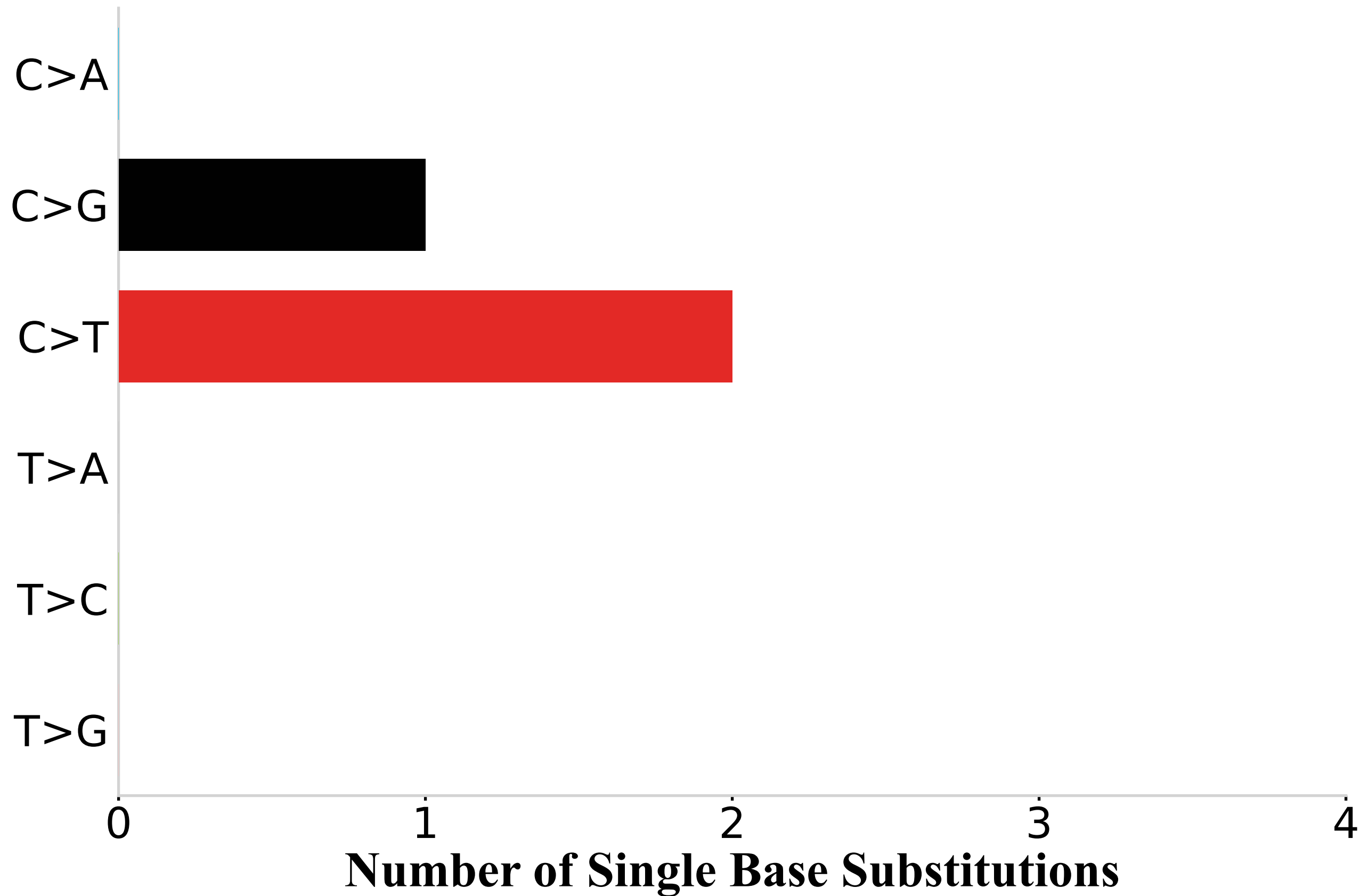
P-0042862-T01-IM6: 4 subs



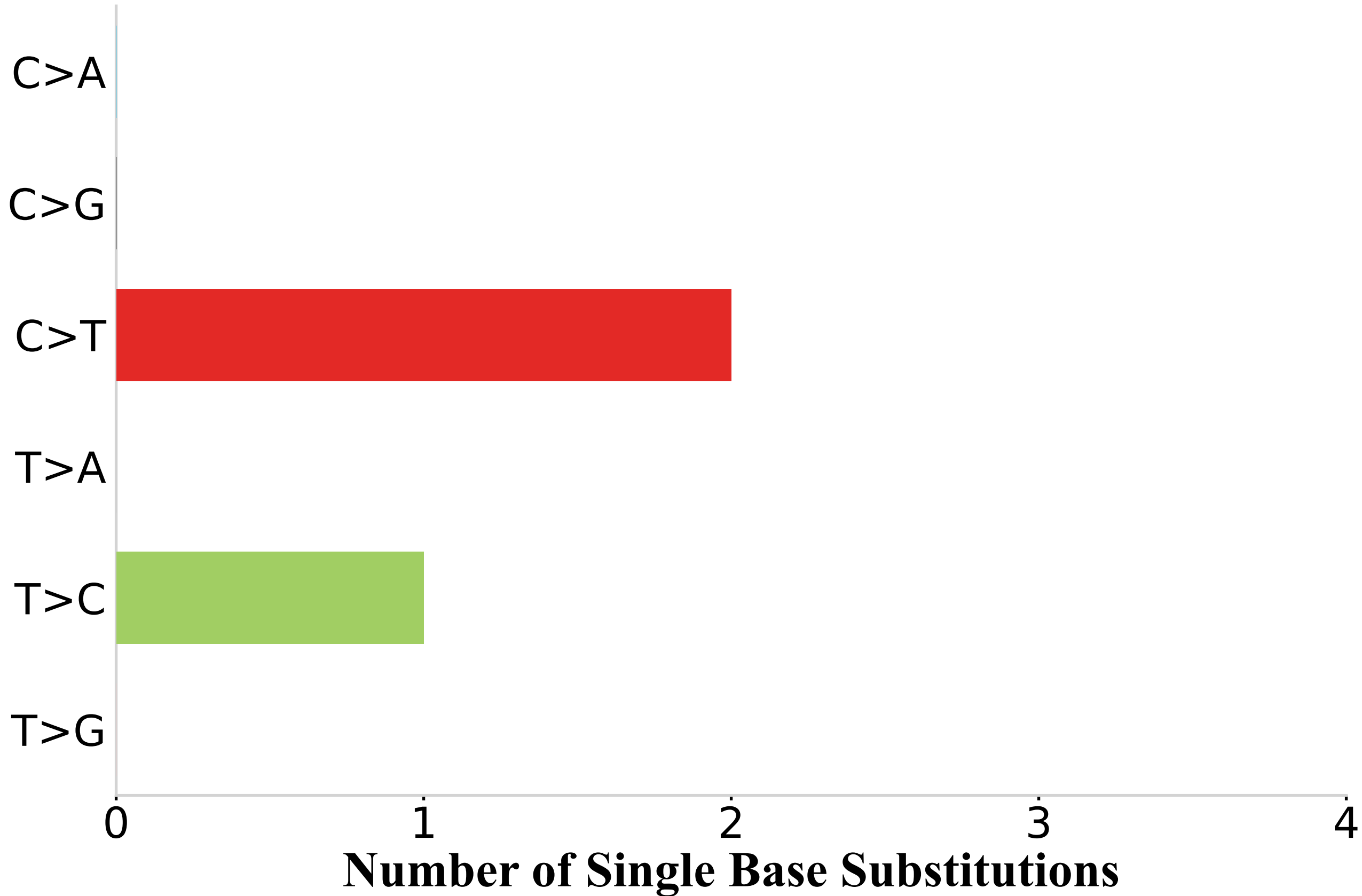
P-0043108-T01-IM6: 2 subs



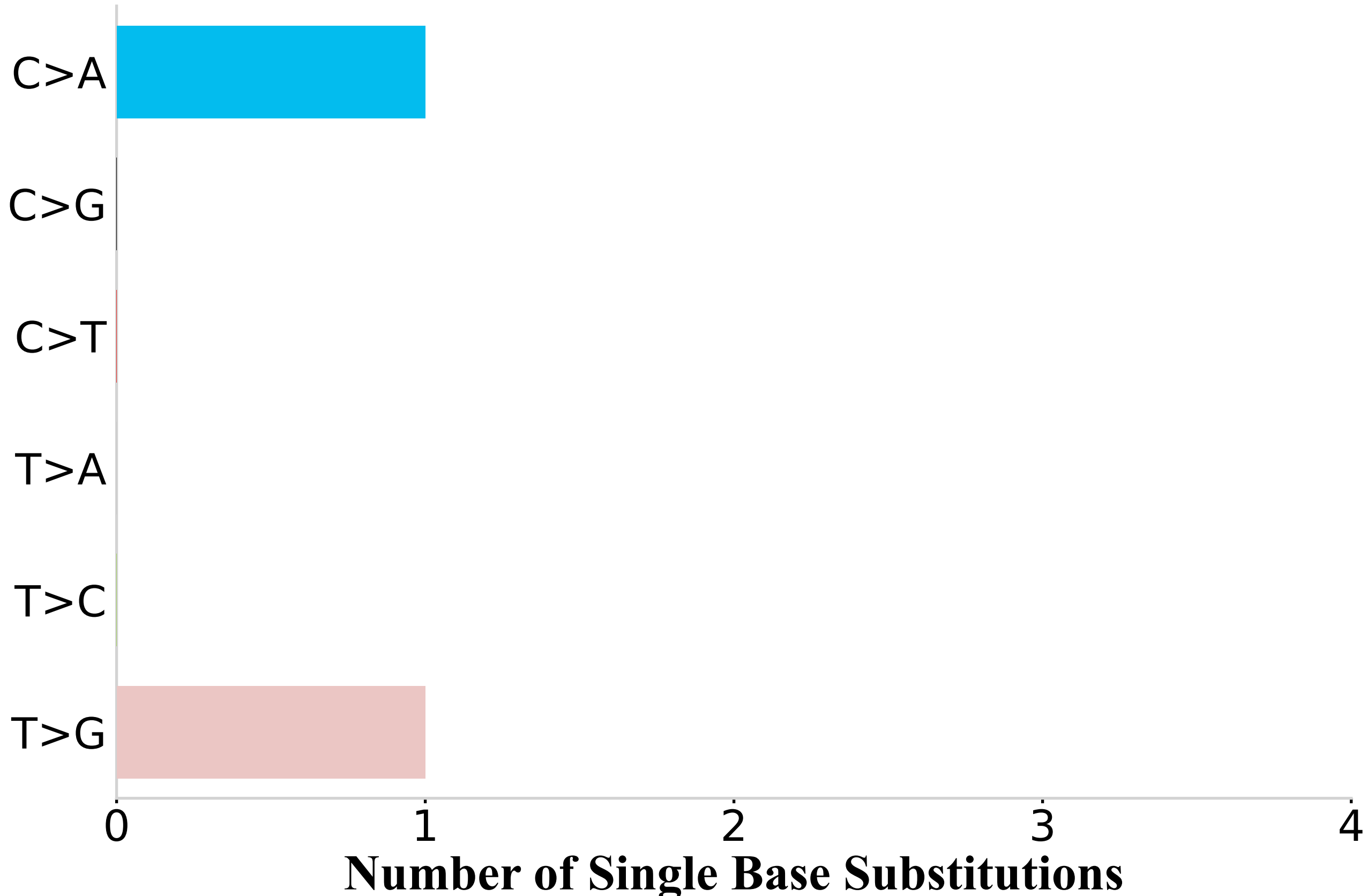
P-0043472-T01-IM6: 3 subs



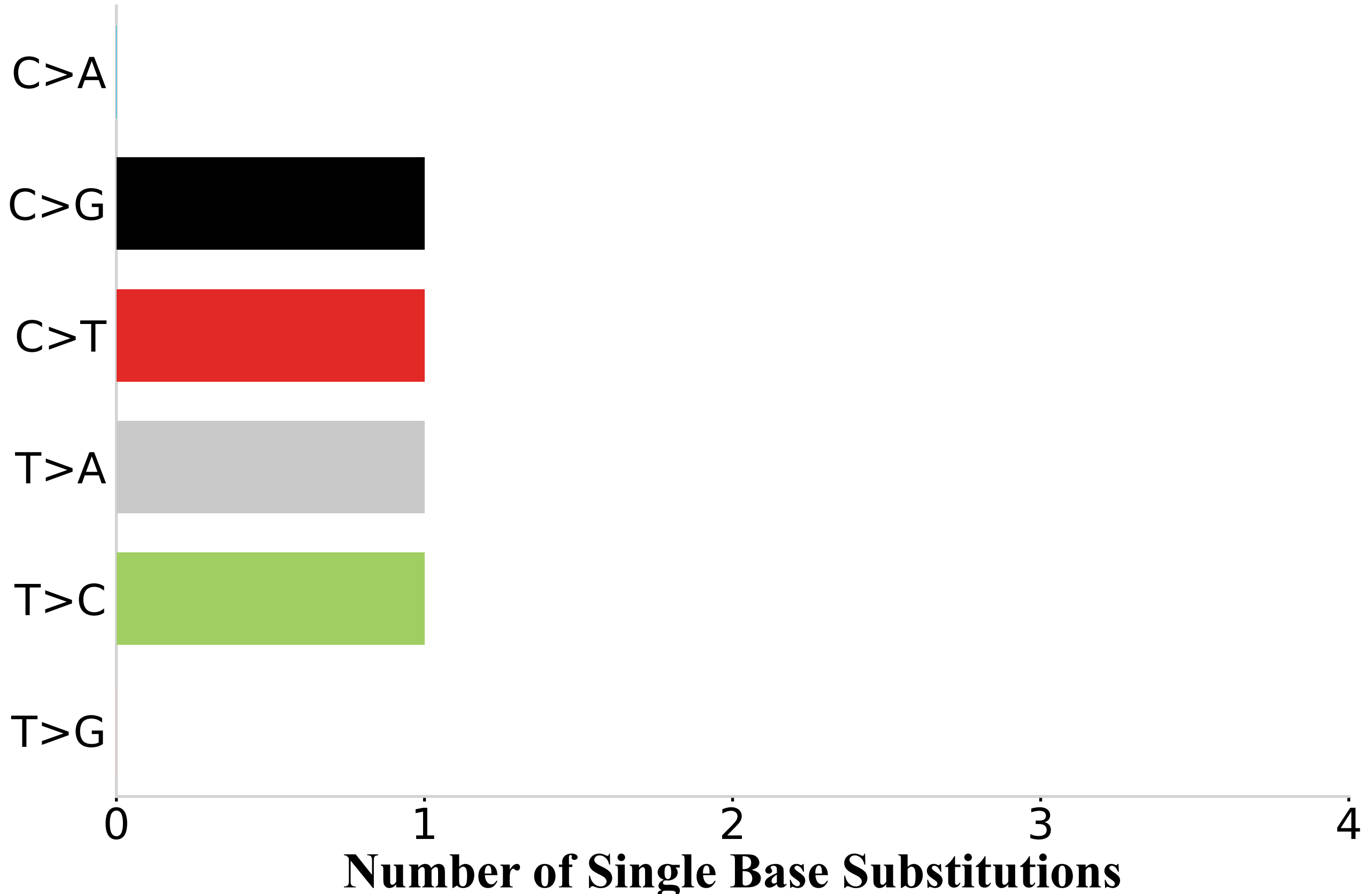
P-0043572-T01-IM6: 3 subs



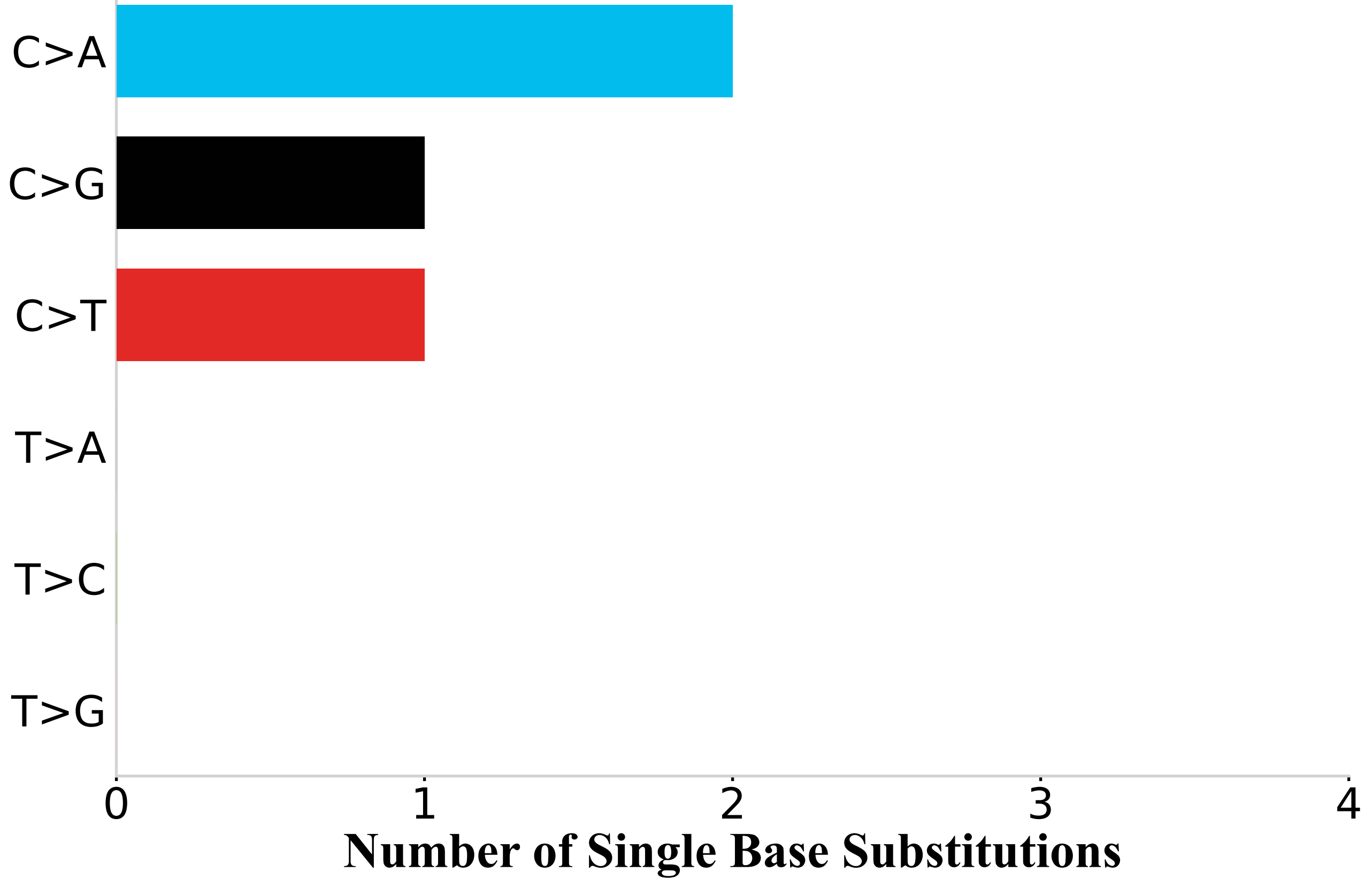
P-0043780-T01-IM6: 2 subs



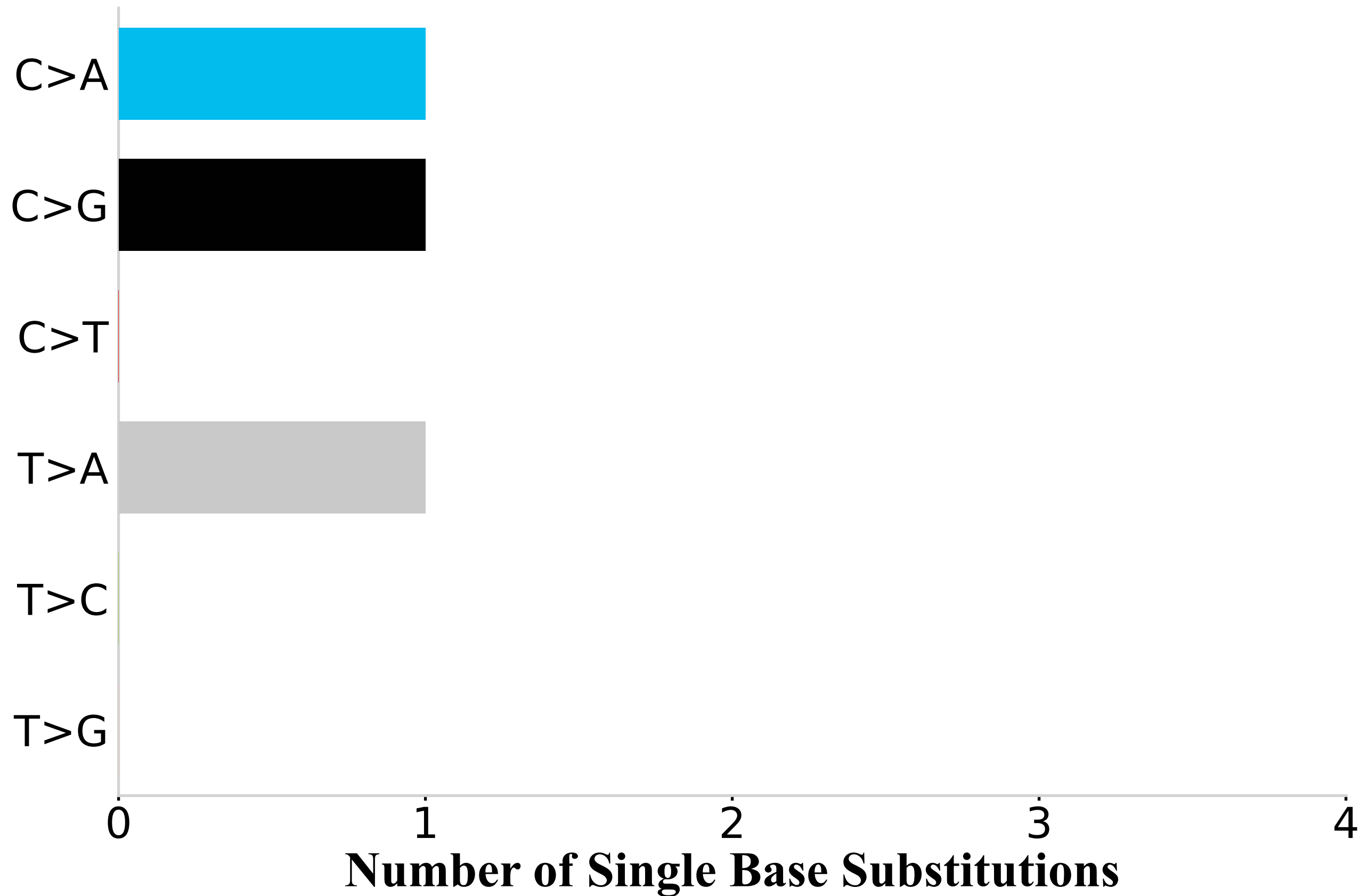
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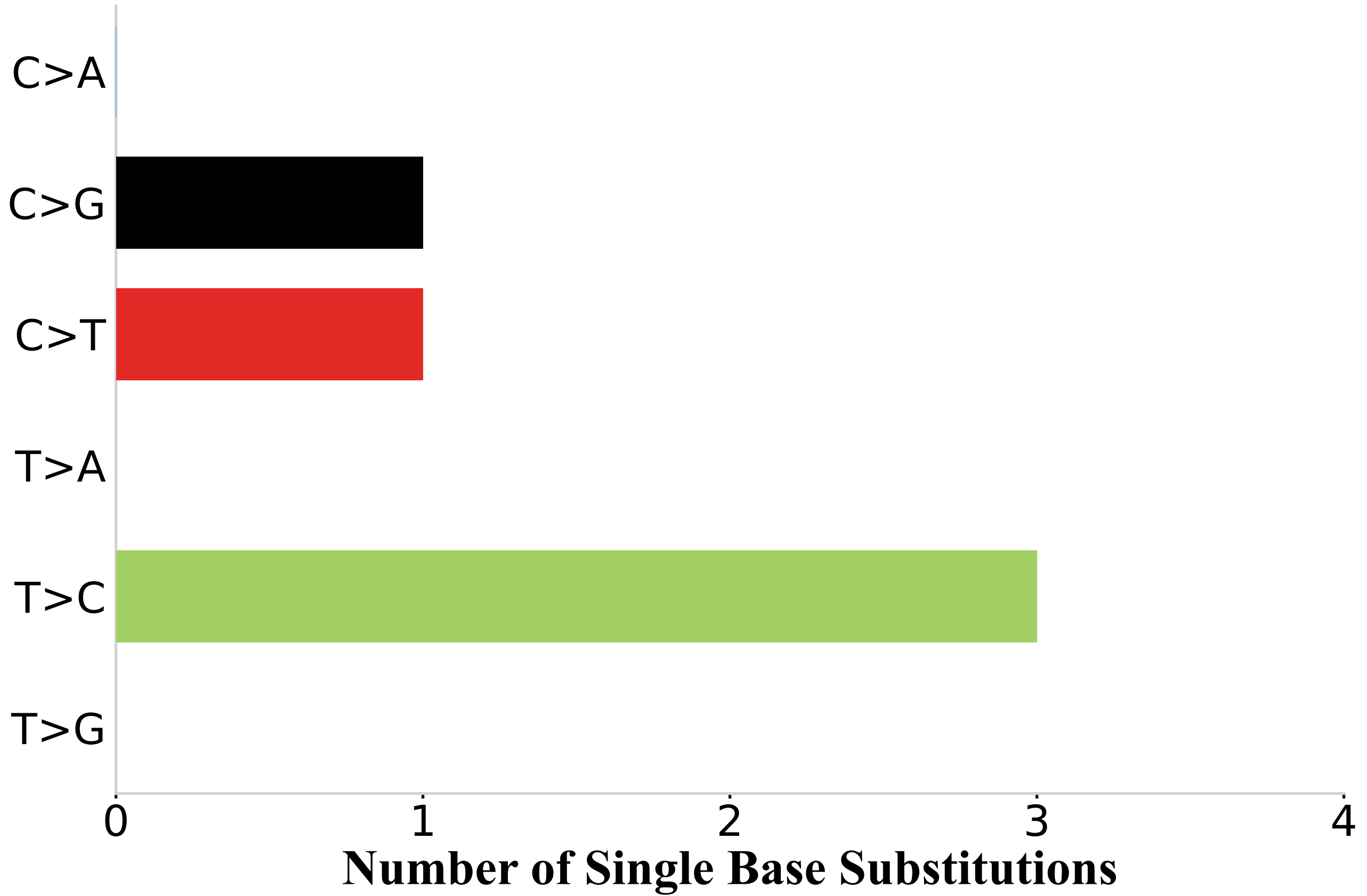
P-0044101-T01-IM6: 4 subs



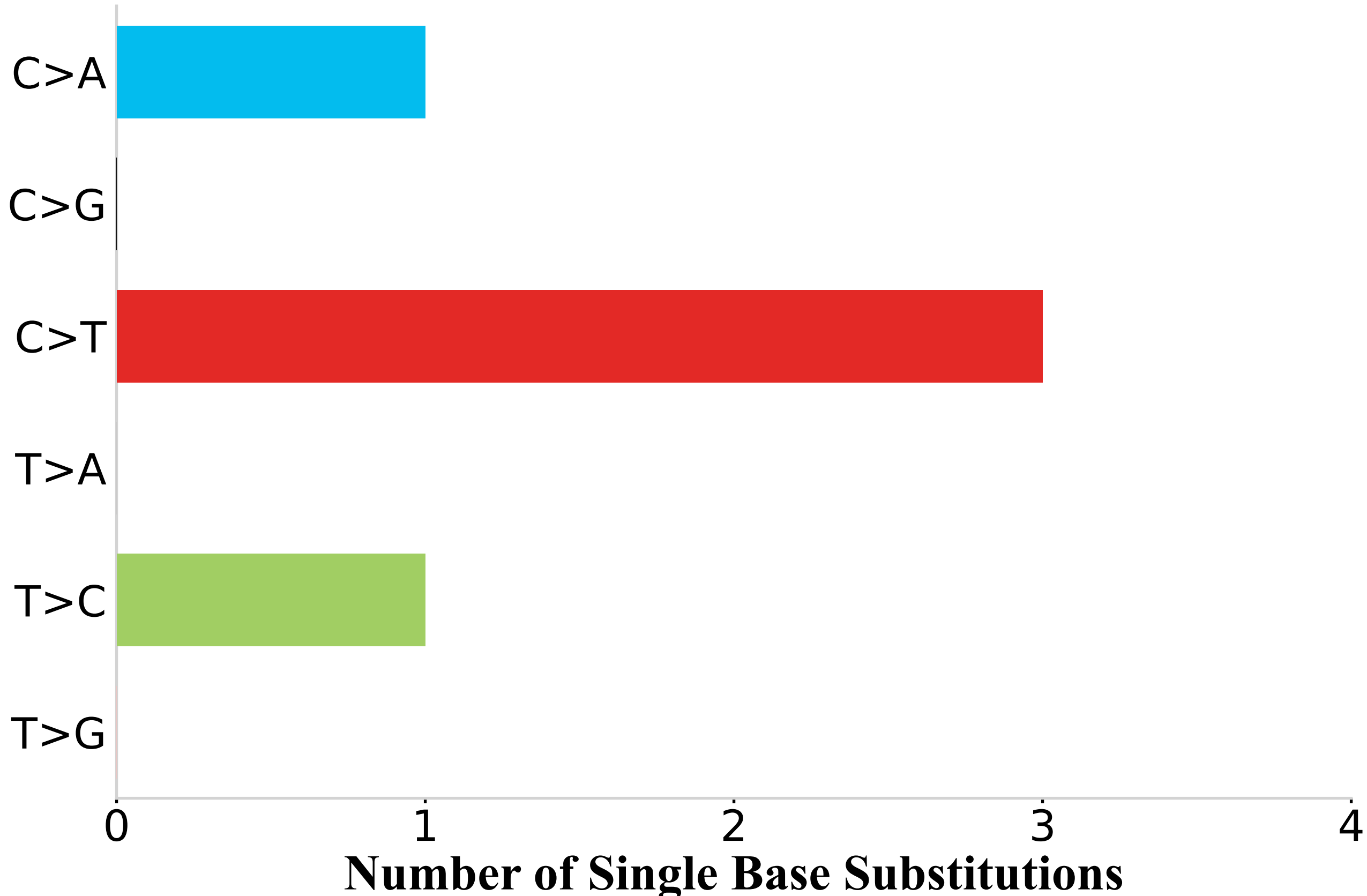
P-0044393-T01-IM6: 3 subs



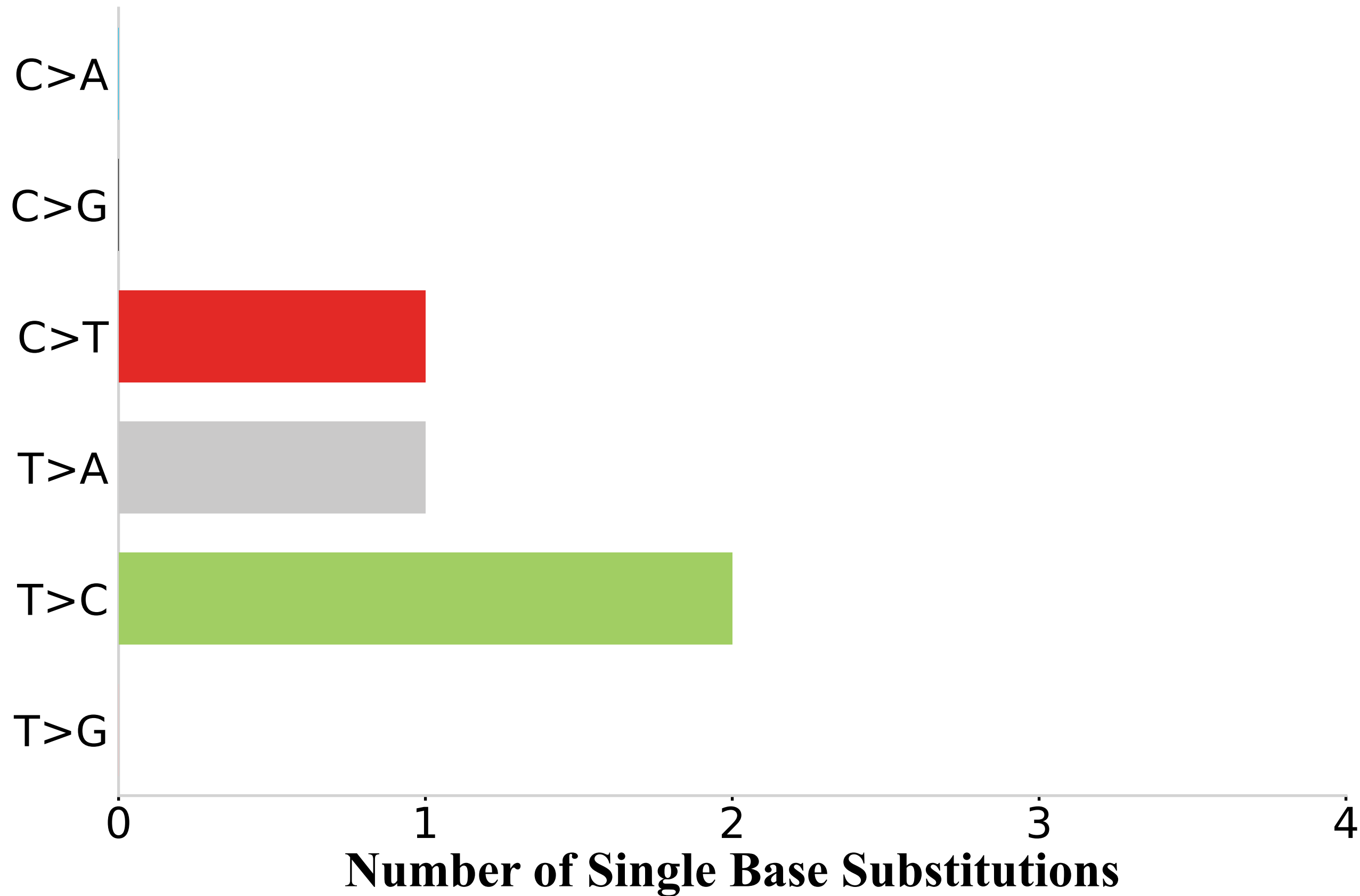
P-0044500-T01-IM6: 5 subs



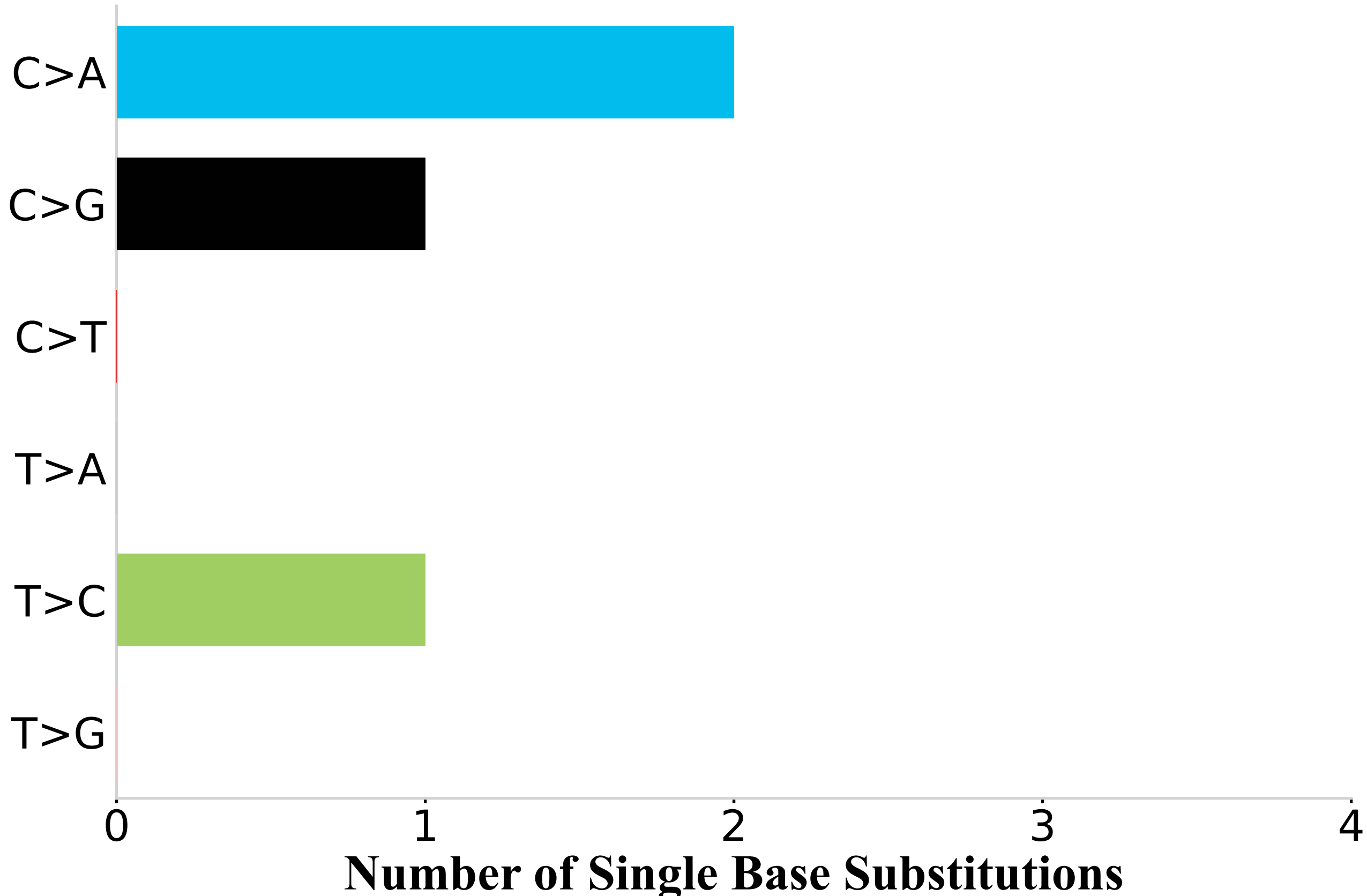
P-0044907-T01-IM6: 5 subs



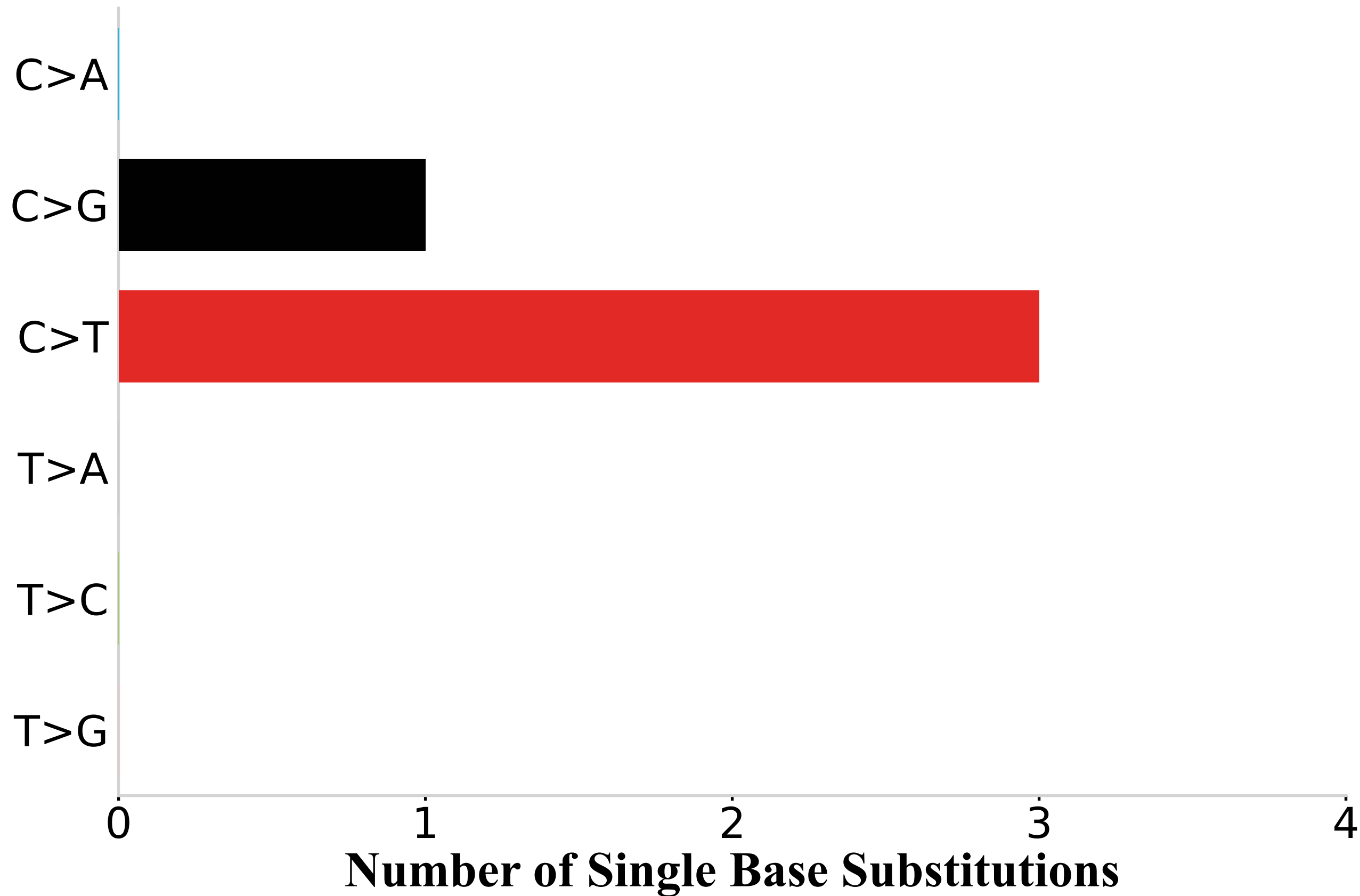
P-0044930-T01-IM6: 4 subs



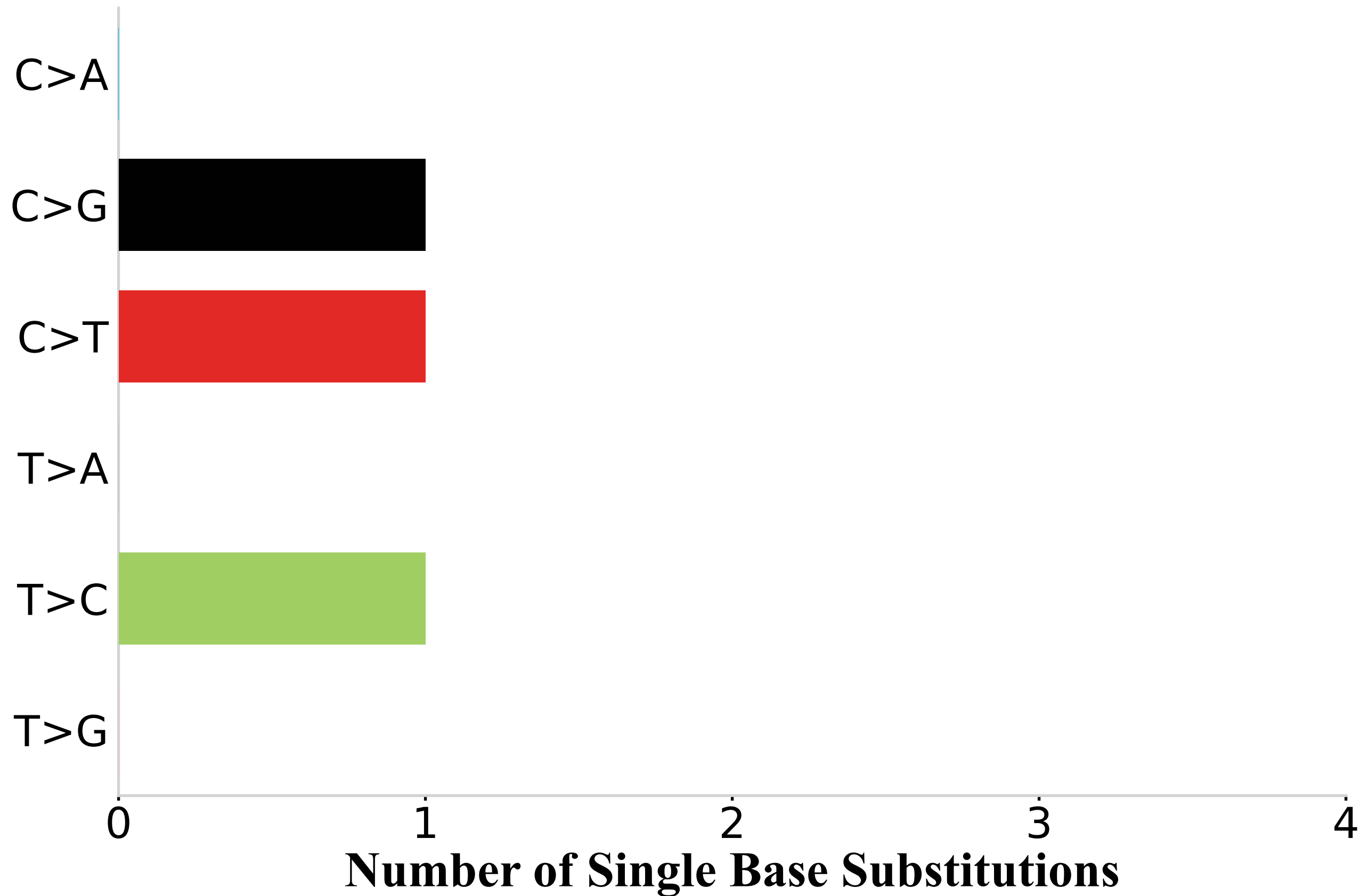
P-0045544-T01-IM6: 4 subs



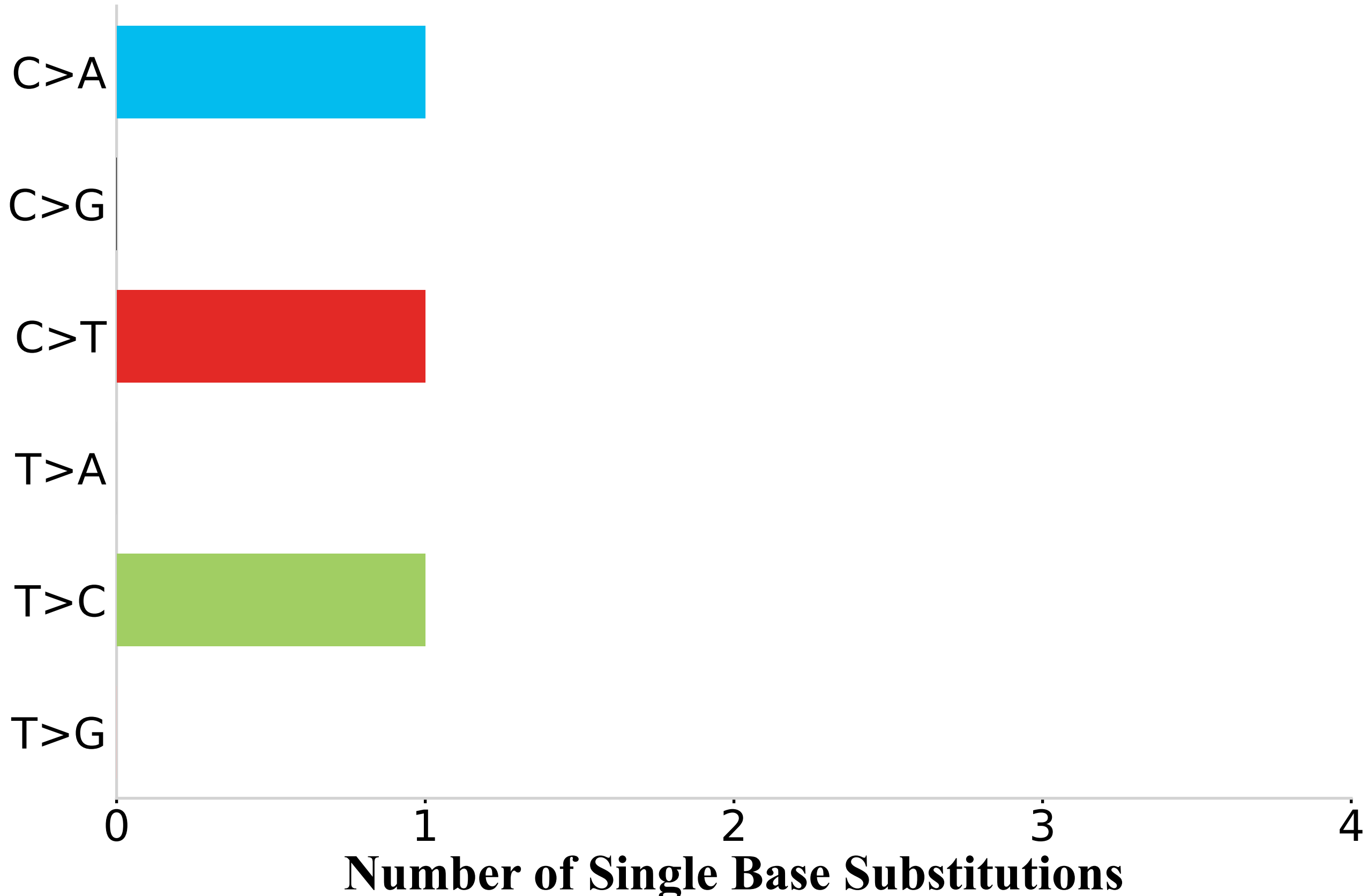
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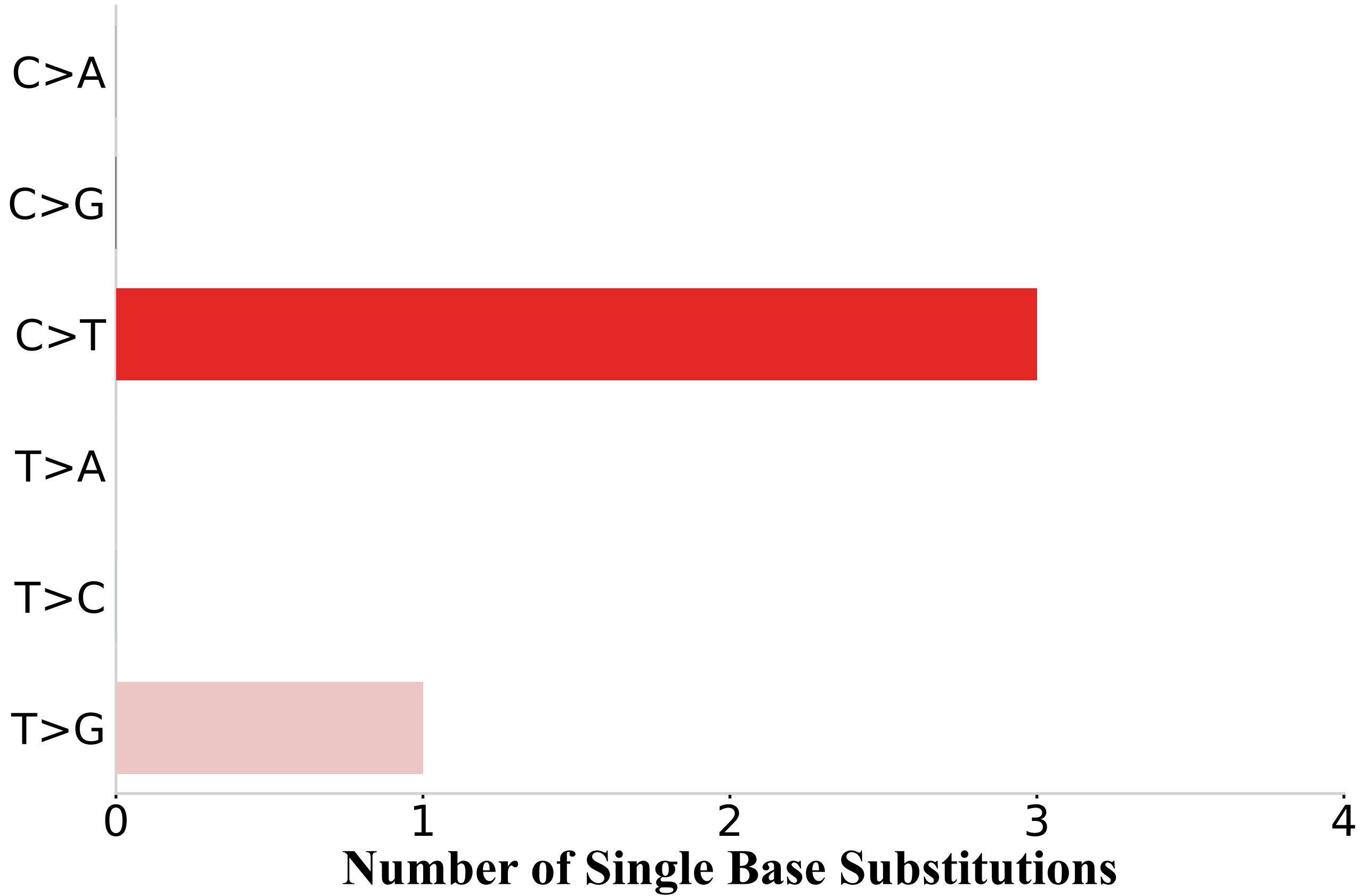
P-0046199-T01-IM6: 3 subs



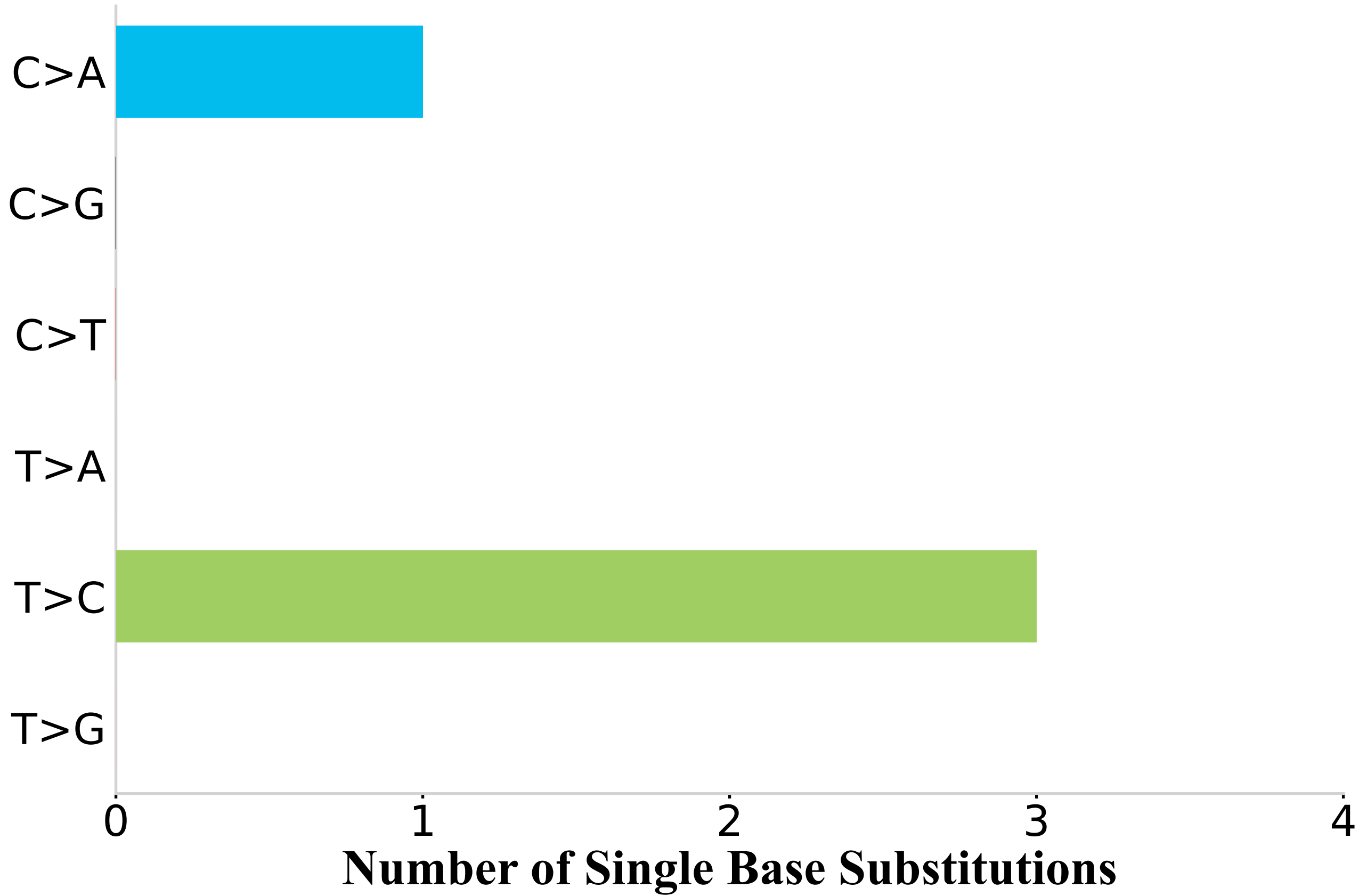
P-0046212-T01-IM6: 3 subs



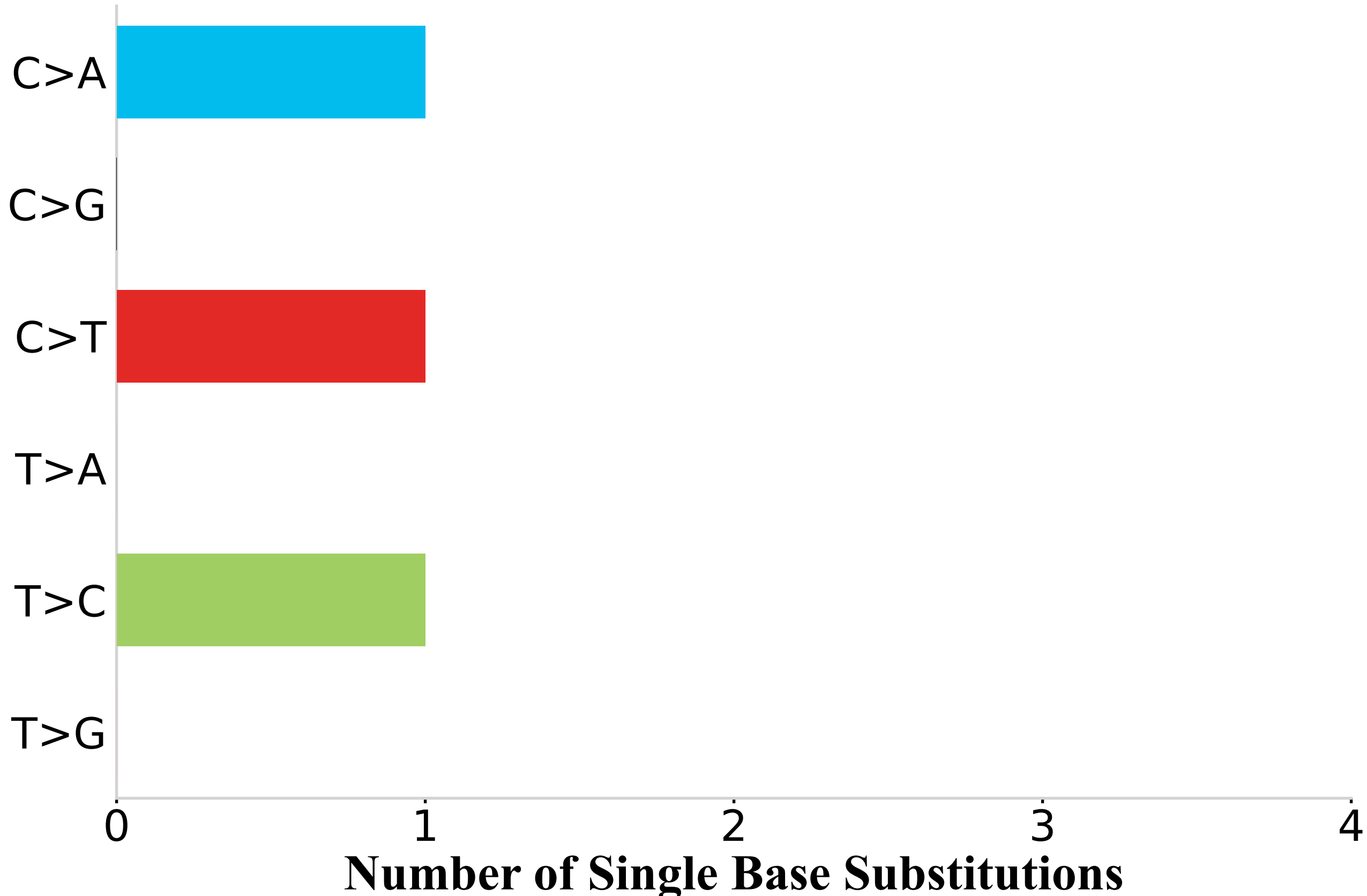
P-0046253-T01-IM6: 4 subs



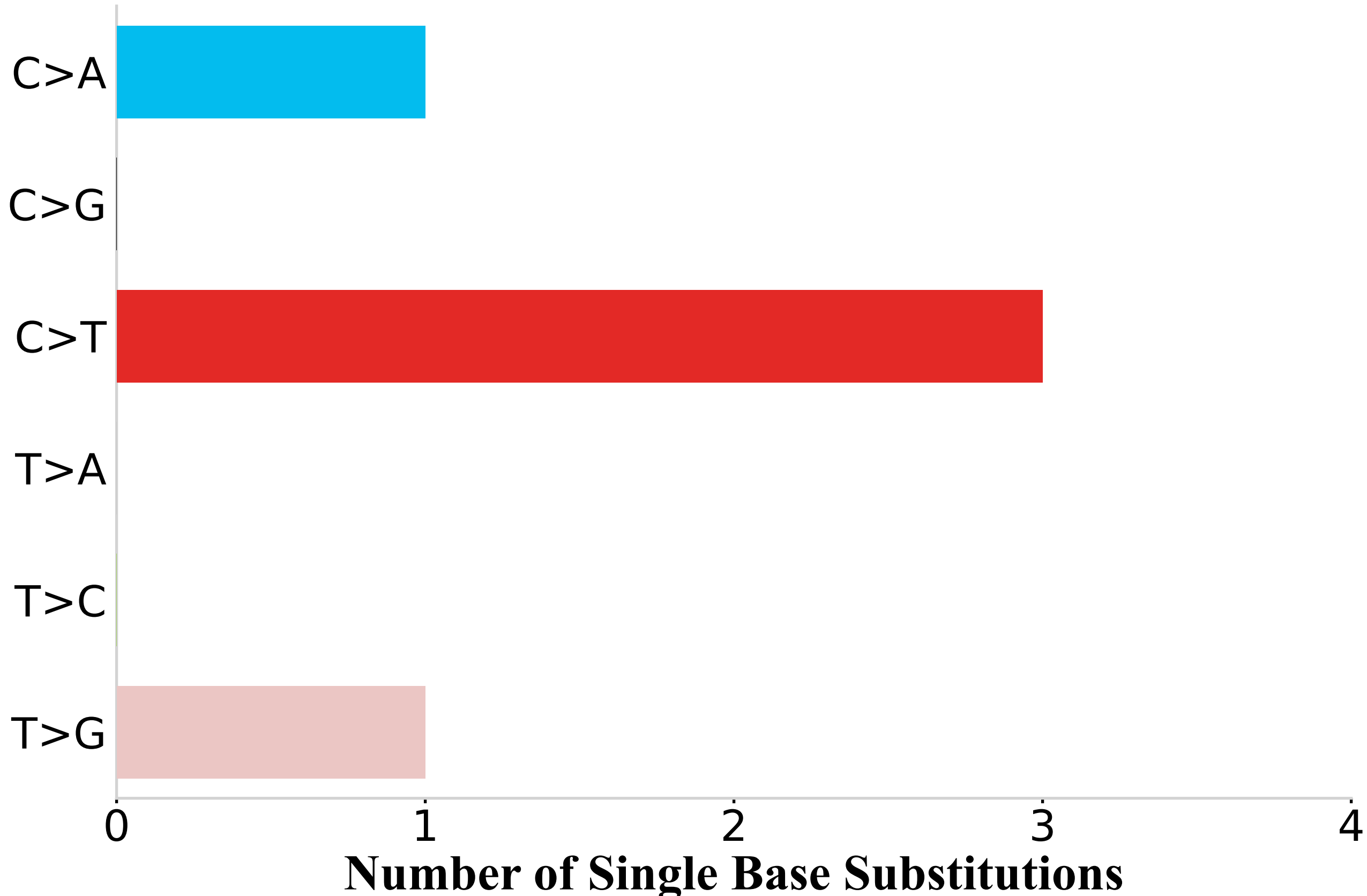
P-0046331-T01-IM6: 4 subs



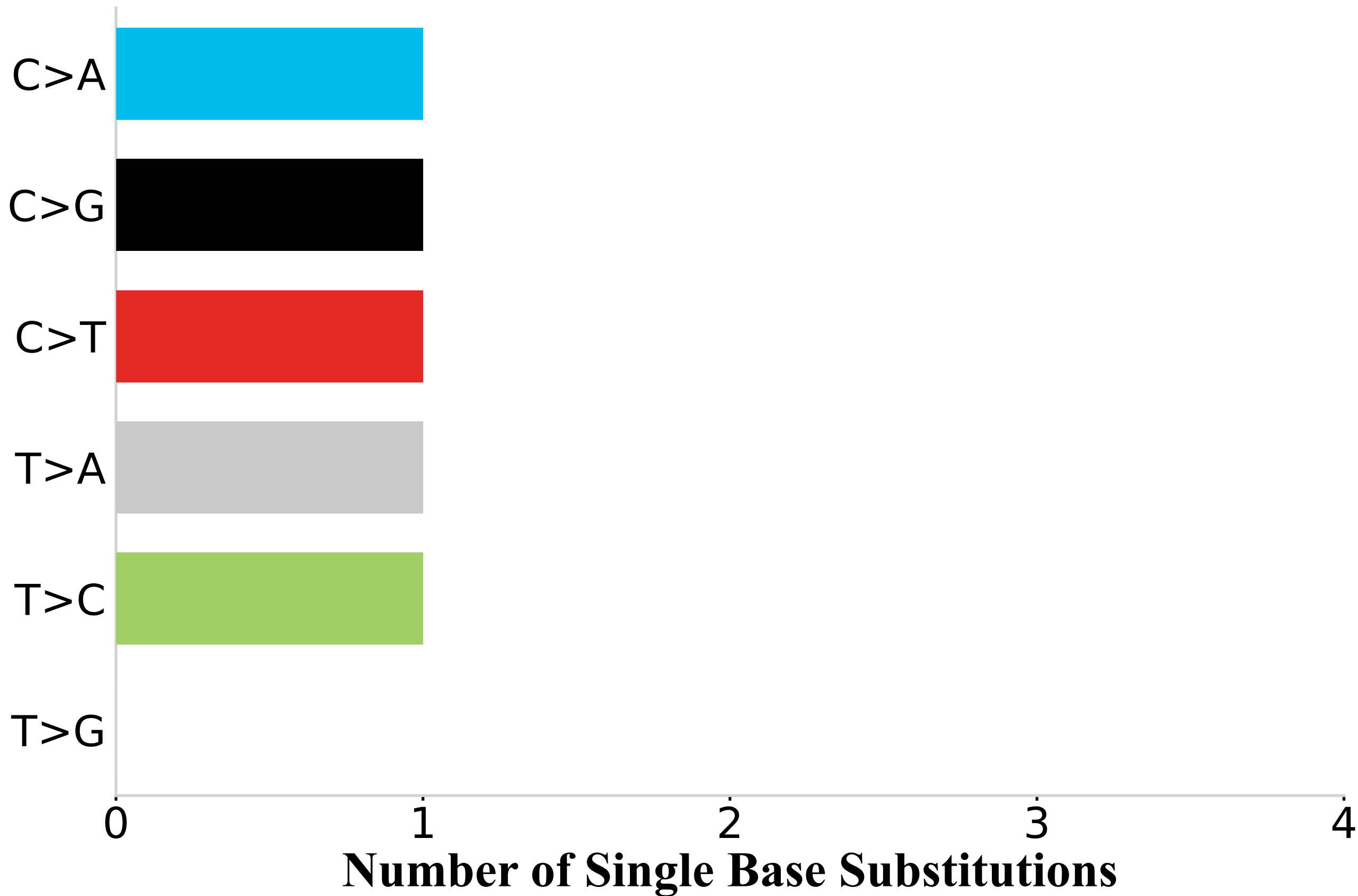
P-0046614-T01-IM6: 3 subs



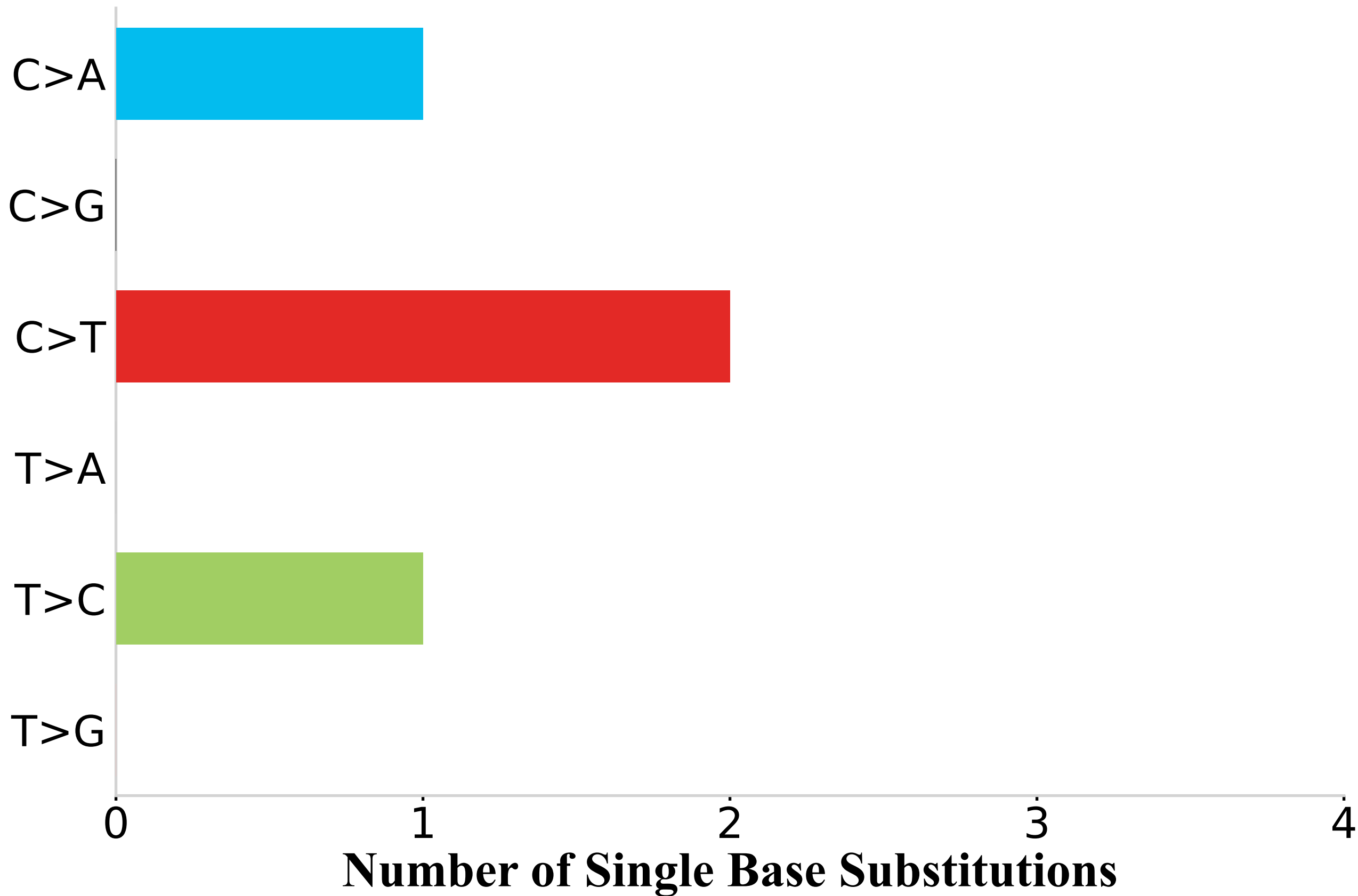
P-0046878-T01-IM6: 5 subs



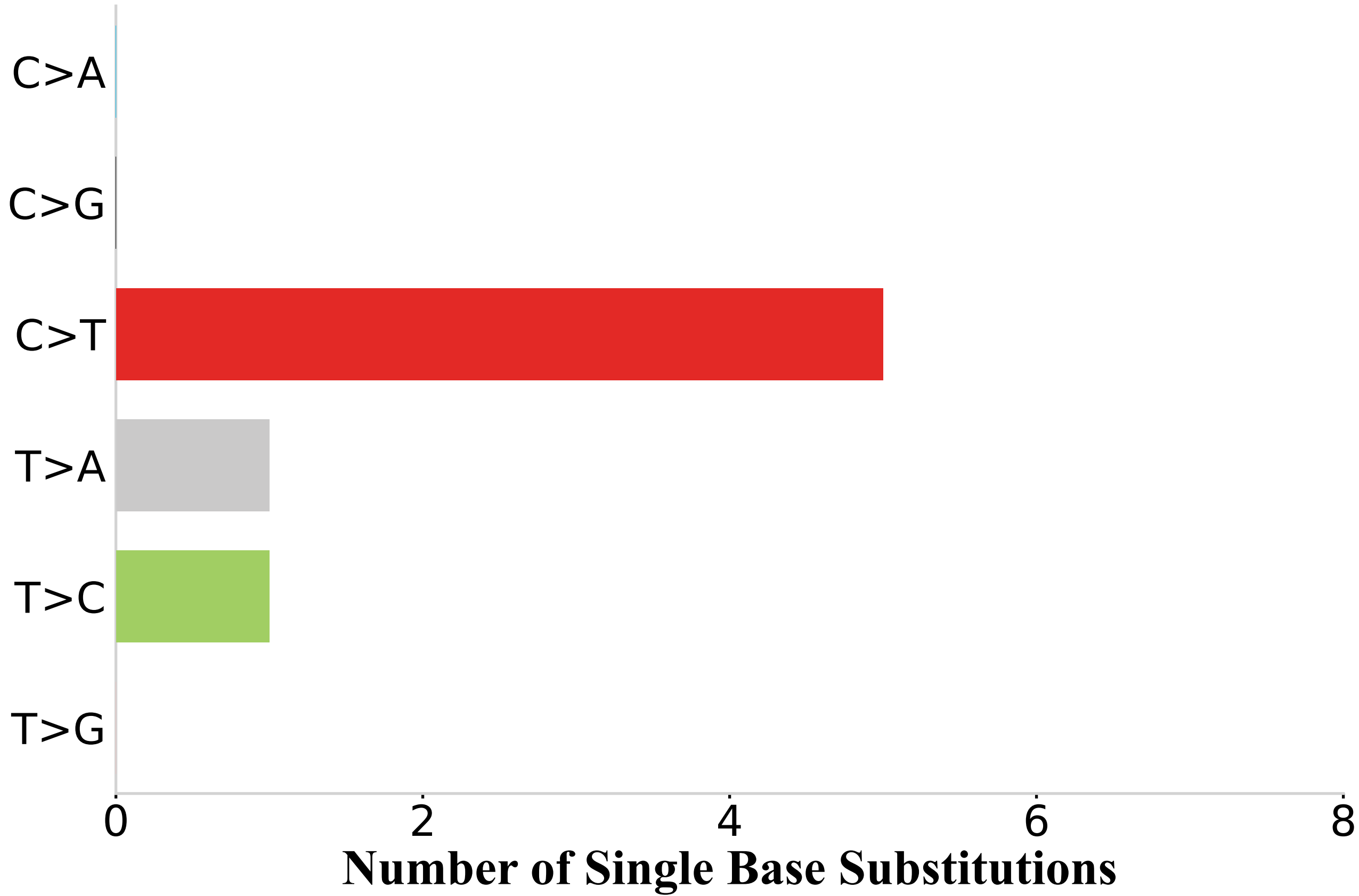
P-0047158-T01-IM6: 5 subs



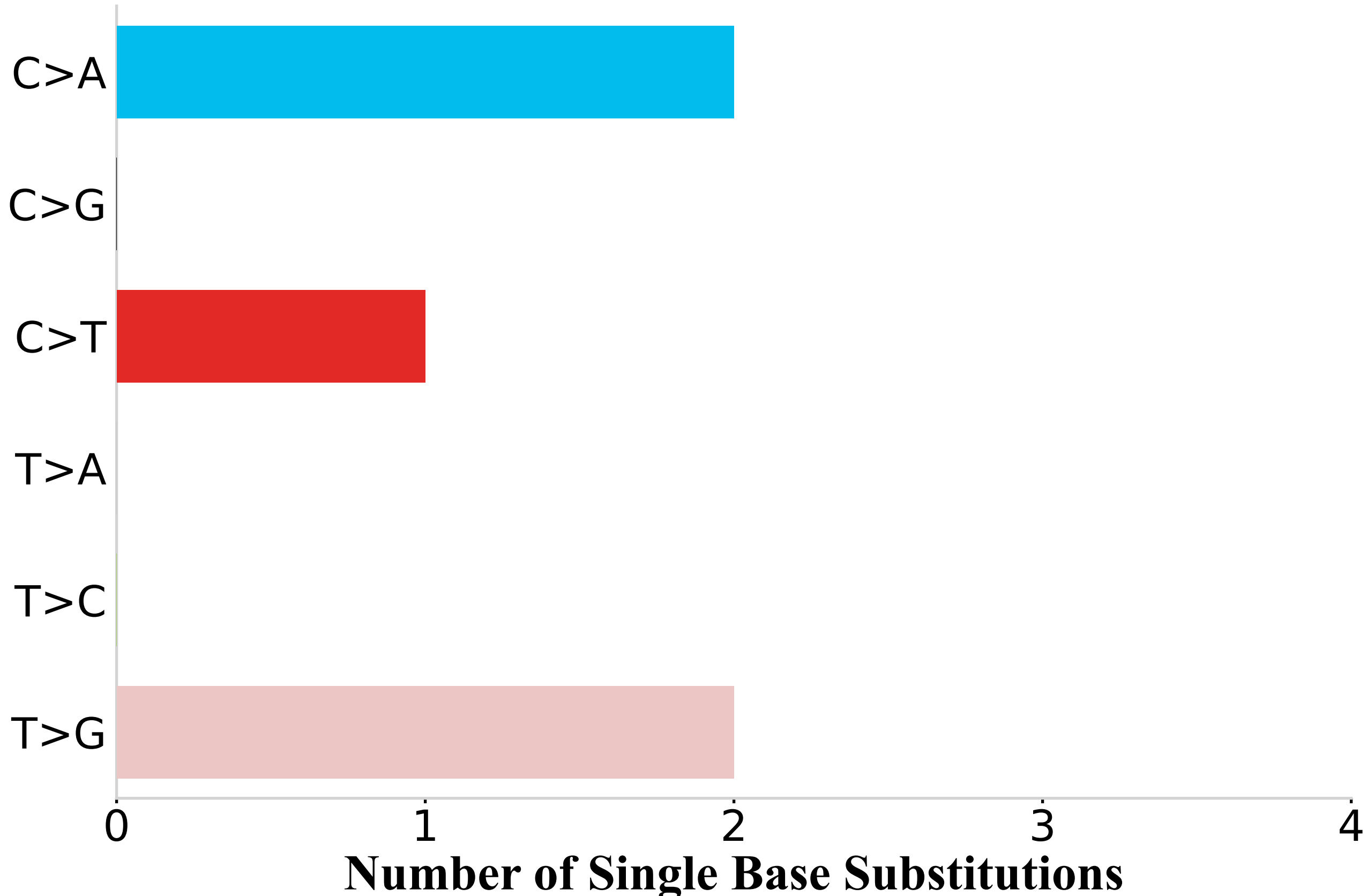
P-0047230-T01-IM6: 4 subs



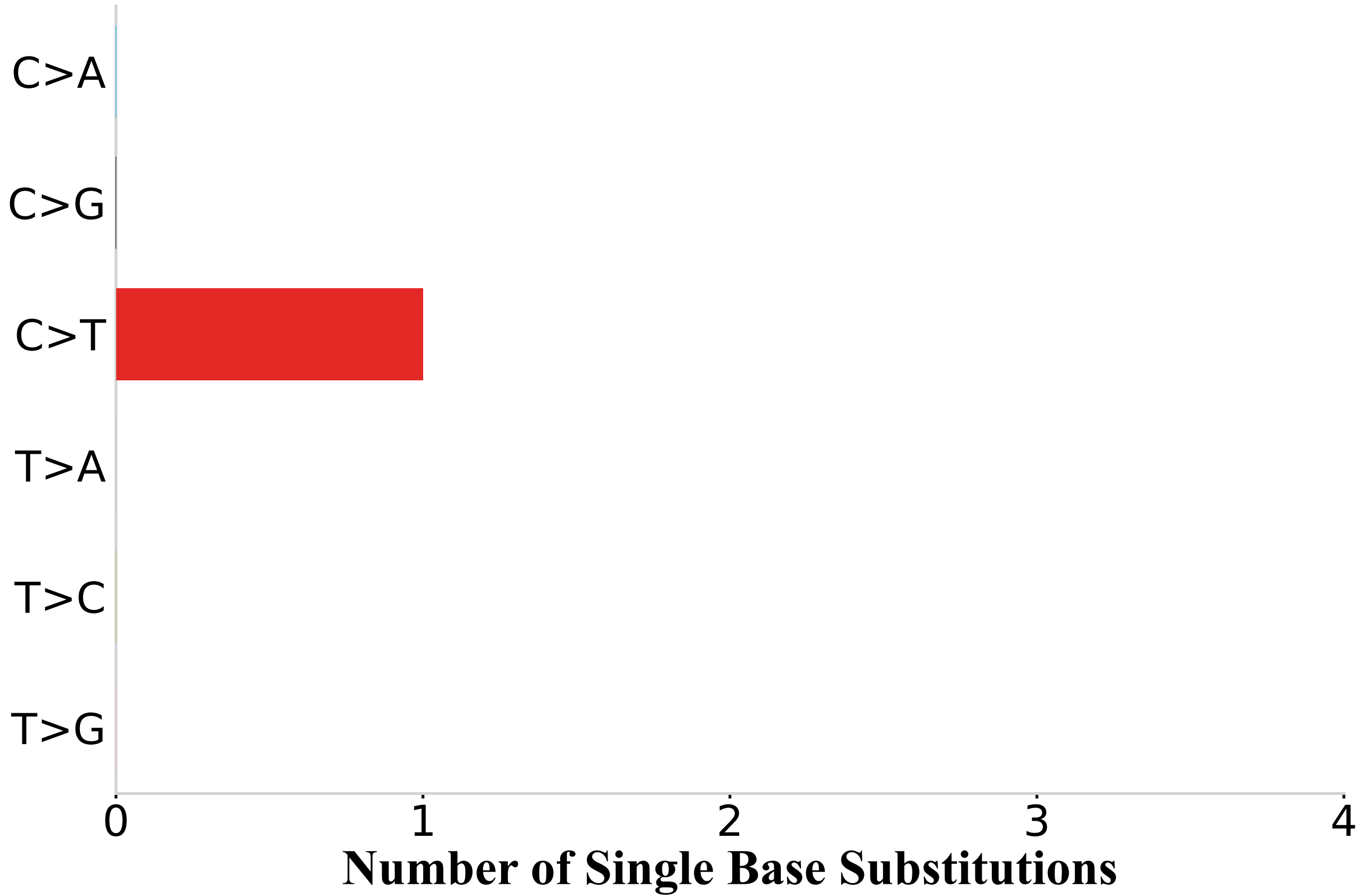
P-0047371-T01-IM6: 7 subs



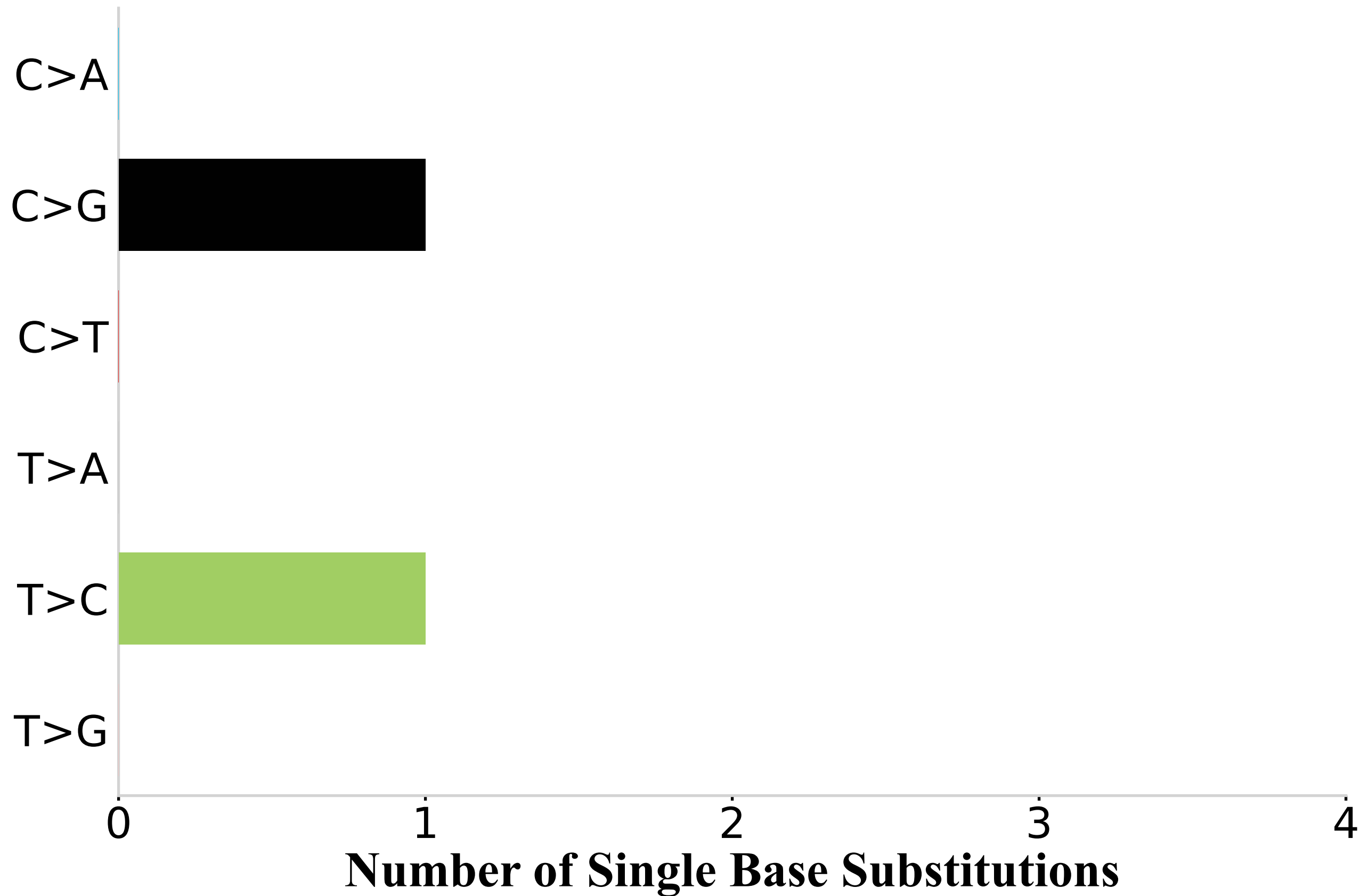
P-0047498-T01-IM6: 5 subs



P-0047576-T01-IM6: 1 subs



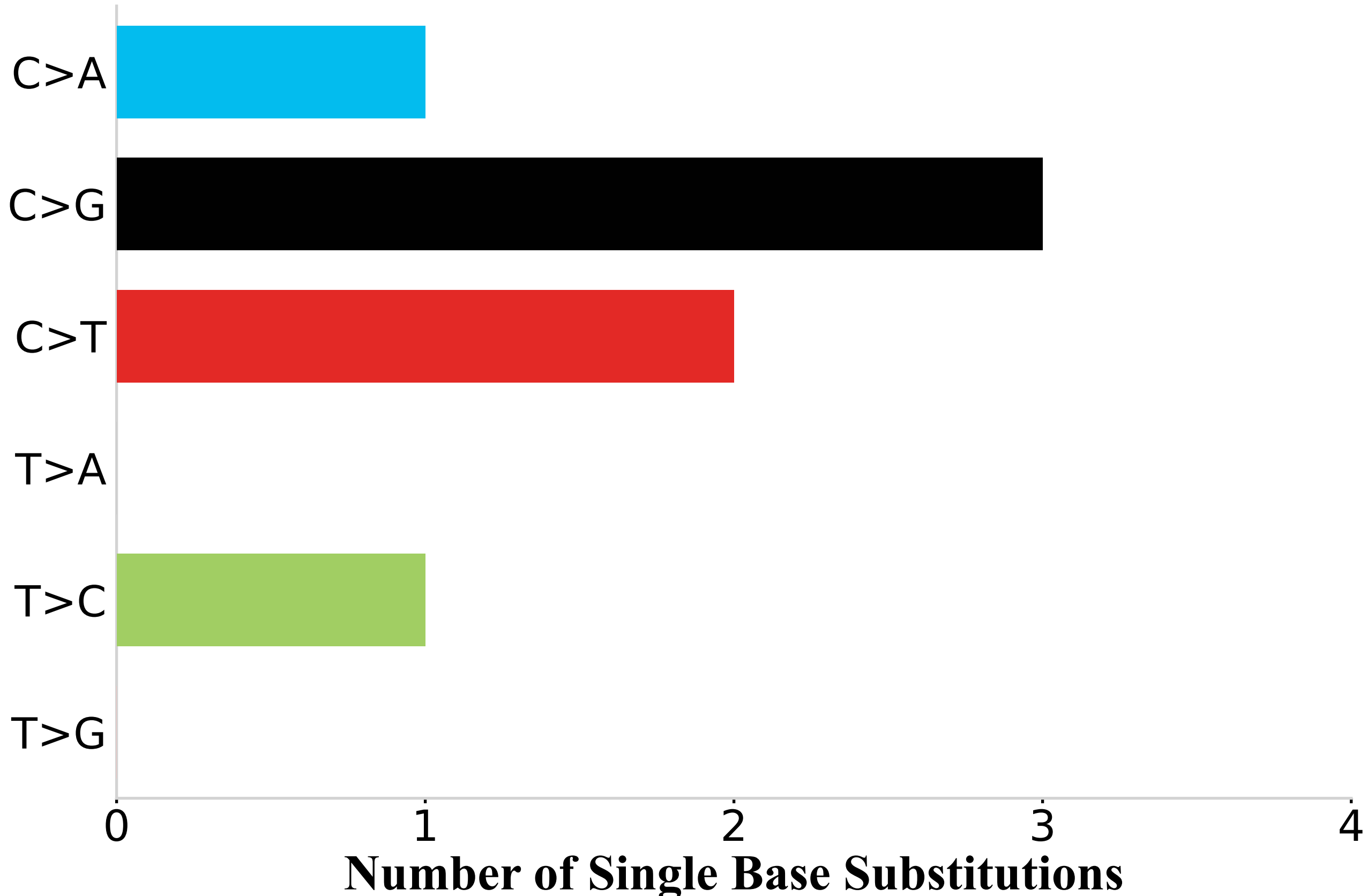
P-0047619-T01-IM6: 2 subs



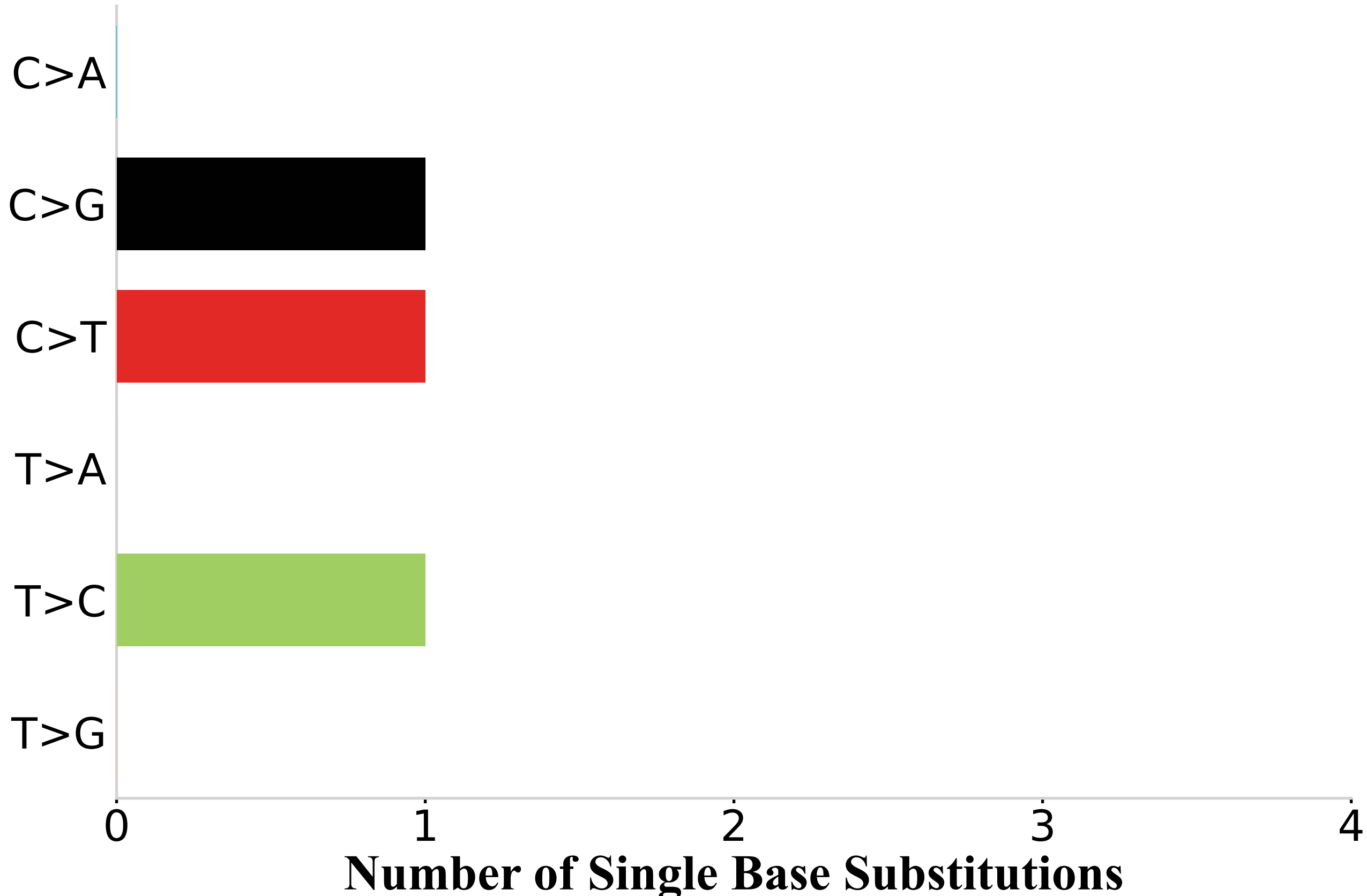
P-0047885-T01-IM6: 2 subs



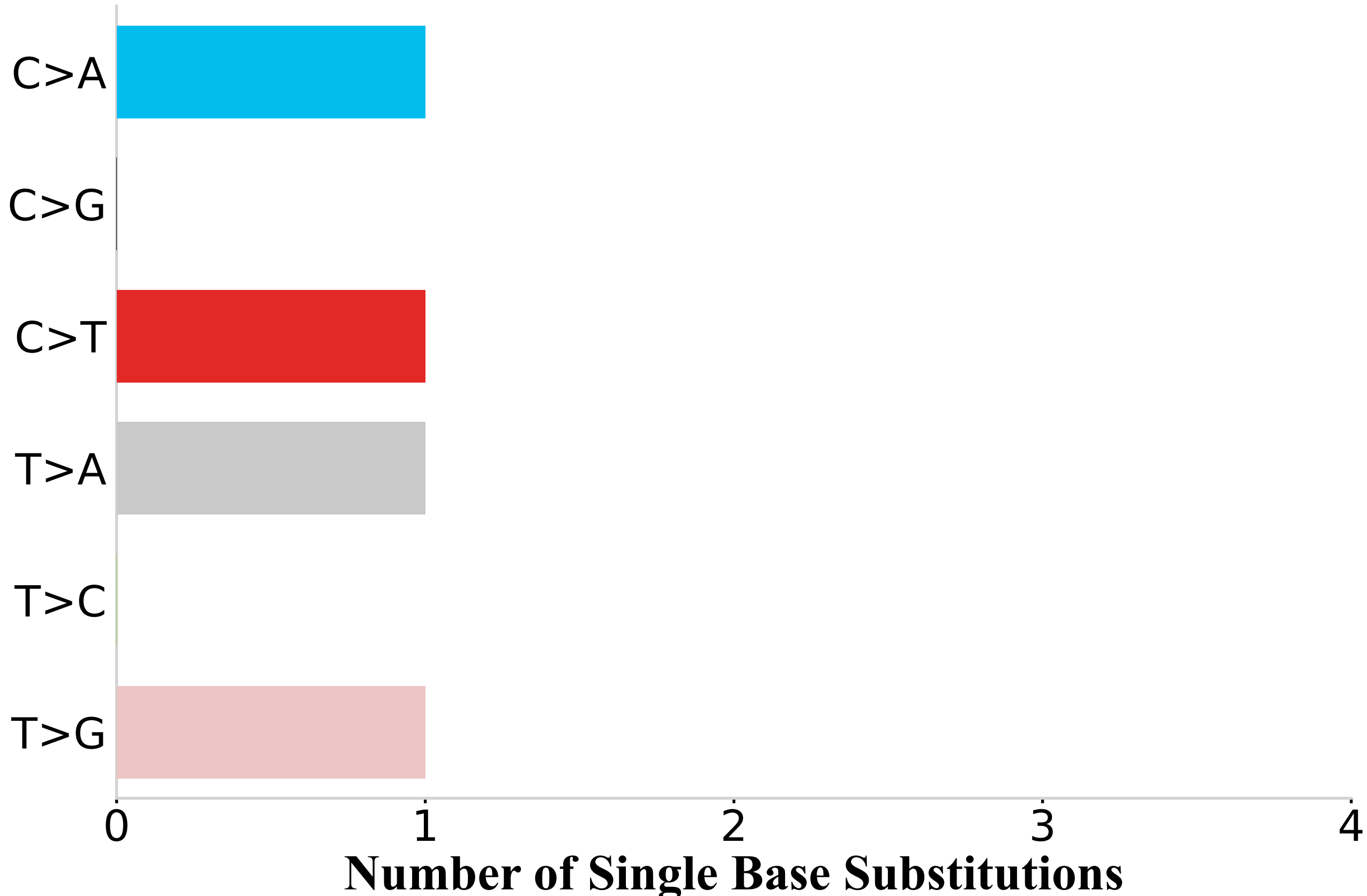
P-0048035-T01-IM6: 7 subs



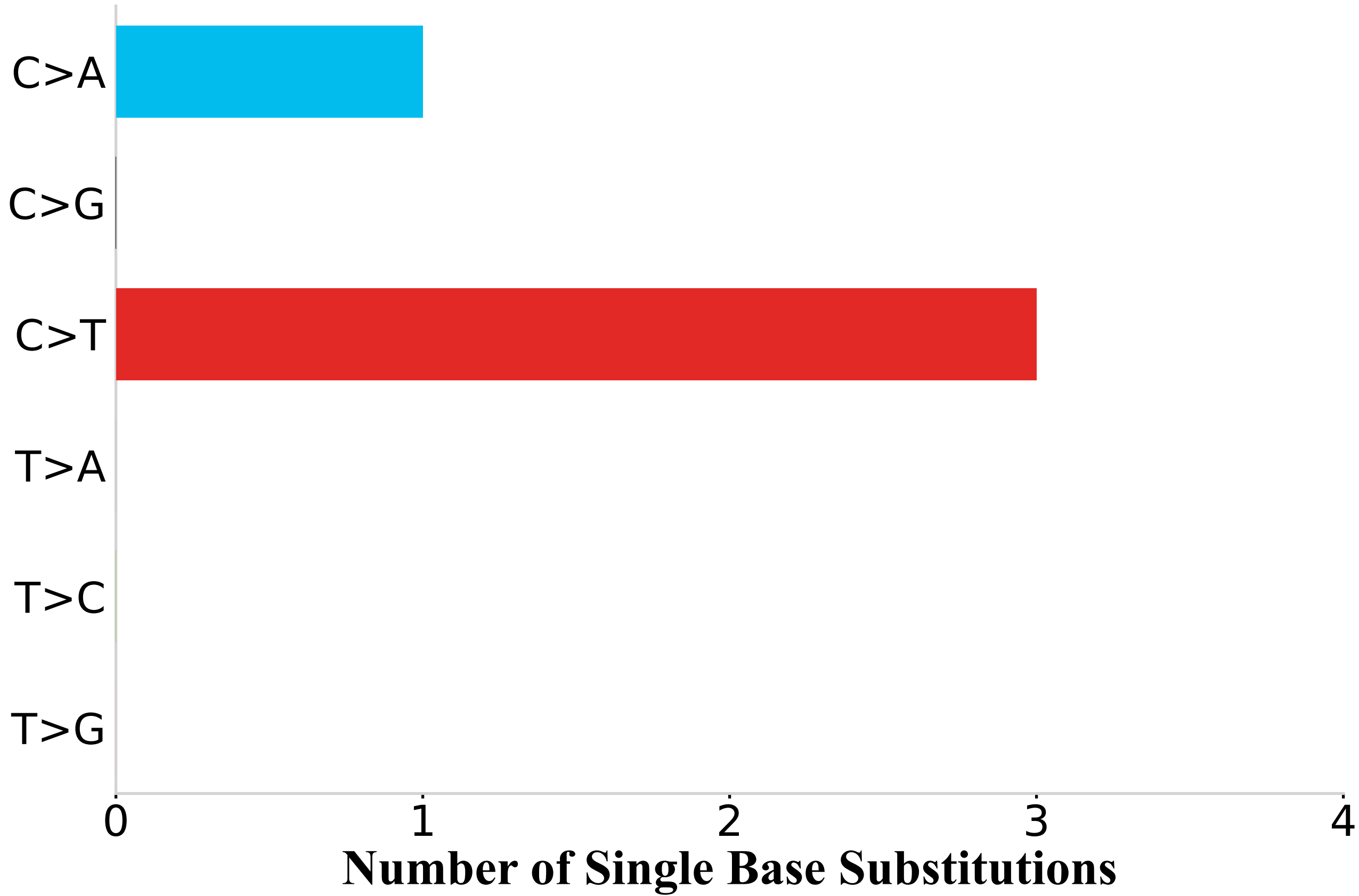
P-0048136-T01-IM6: 3 subs



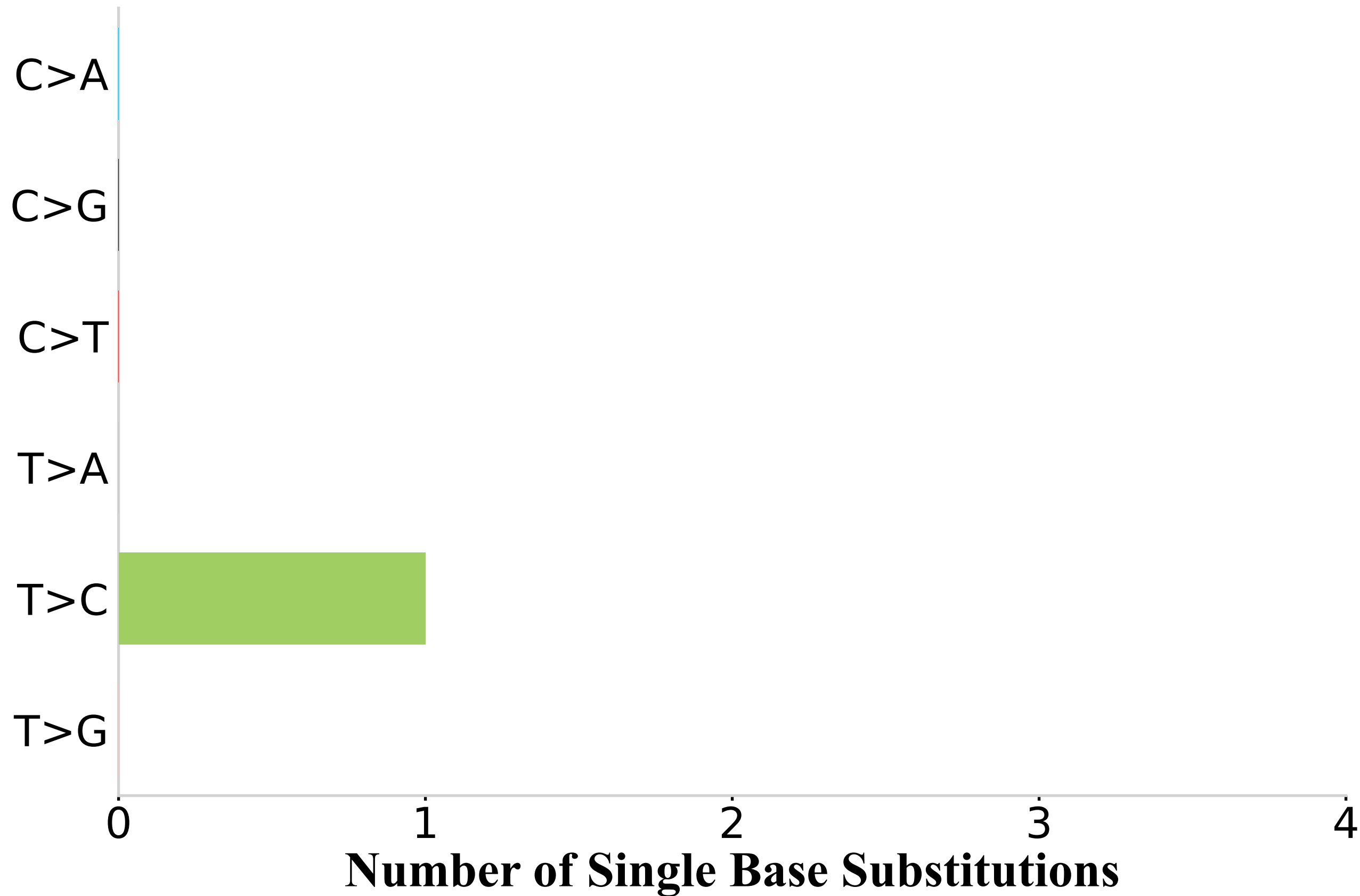
P-0048241-T01-IM6: 4 subs



P-0048248-T01-IM6: 4 subs



P-0048508-T01-IM6: 1 subs



P-0048782-T01-IM6: 4 subs

C>A

C>G

C>T

T>A

T>C

T>G

0

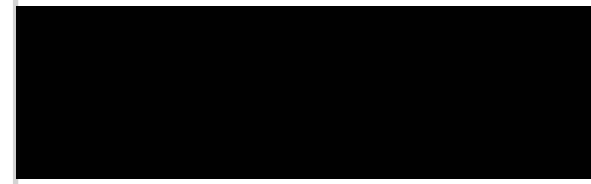
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2

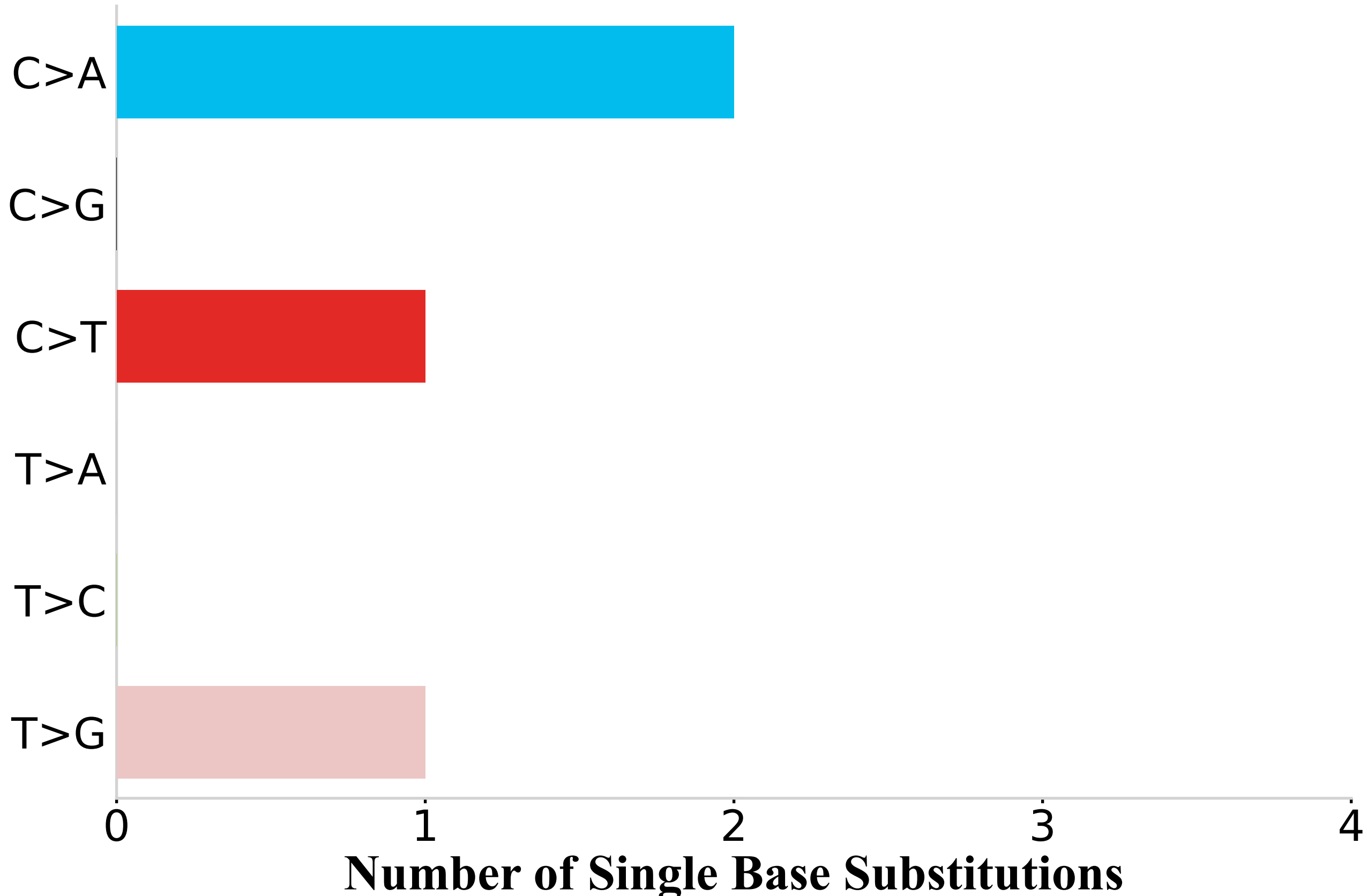
3

4

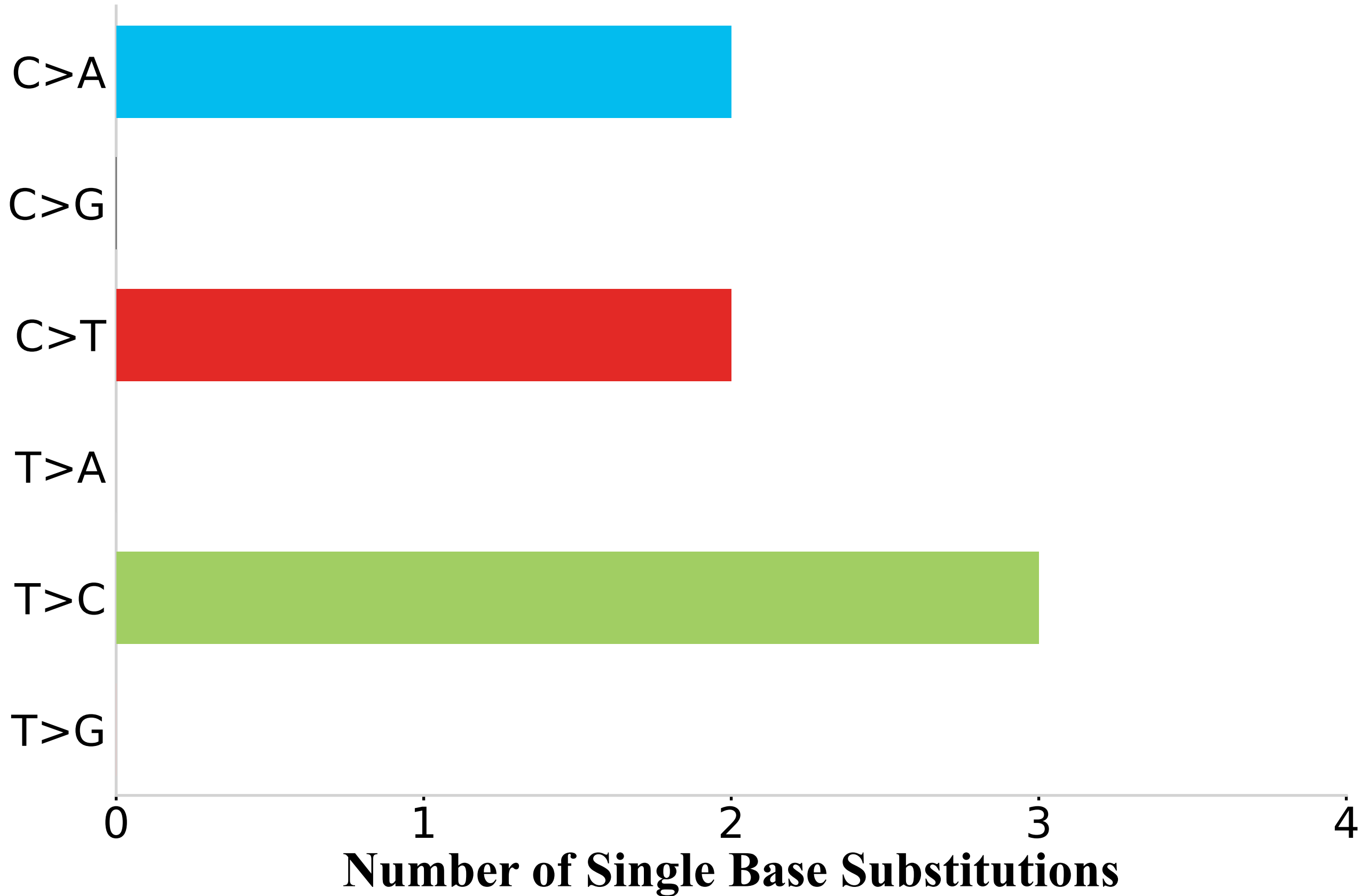
Number of Single Base Substitutions



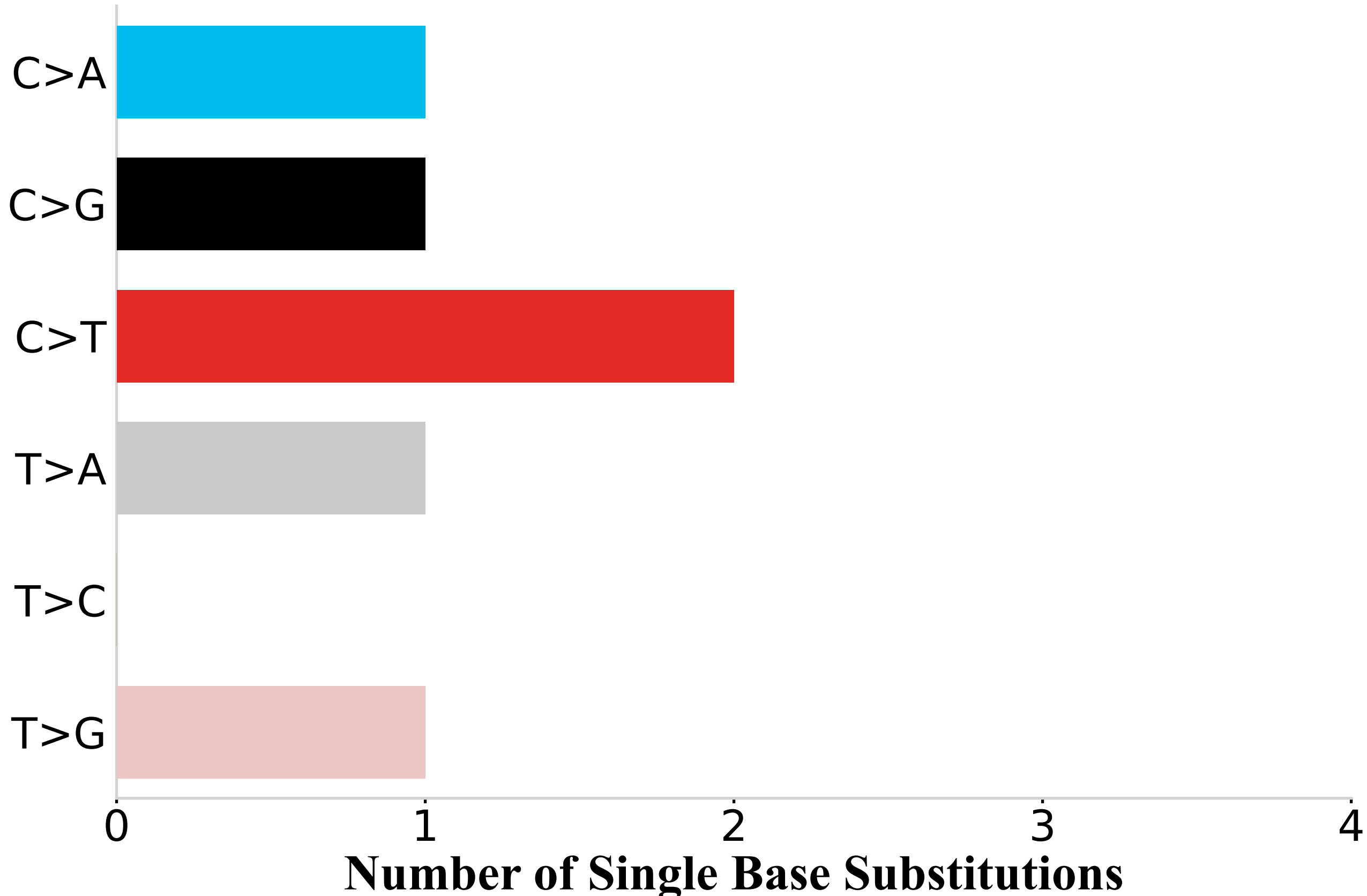
P-0048806-T01-IM6: 4 subs



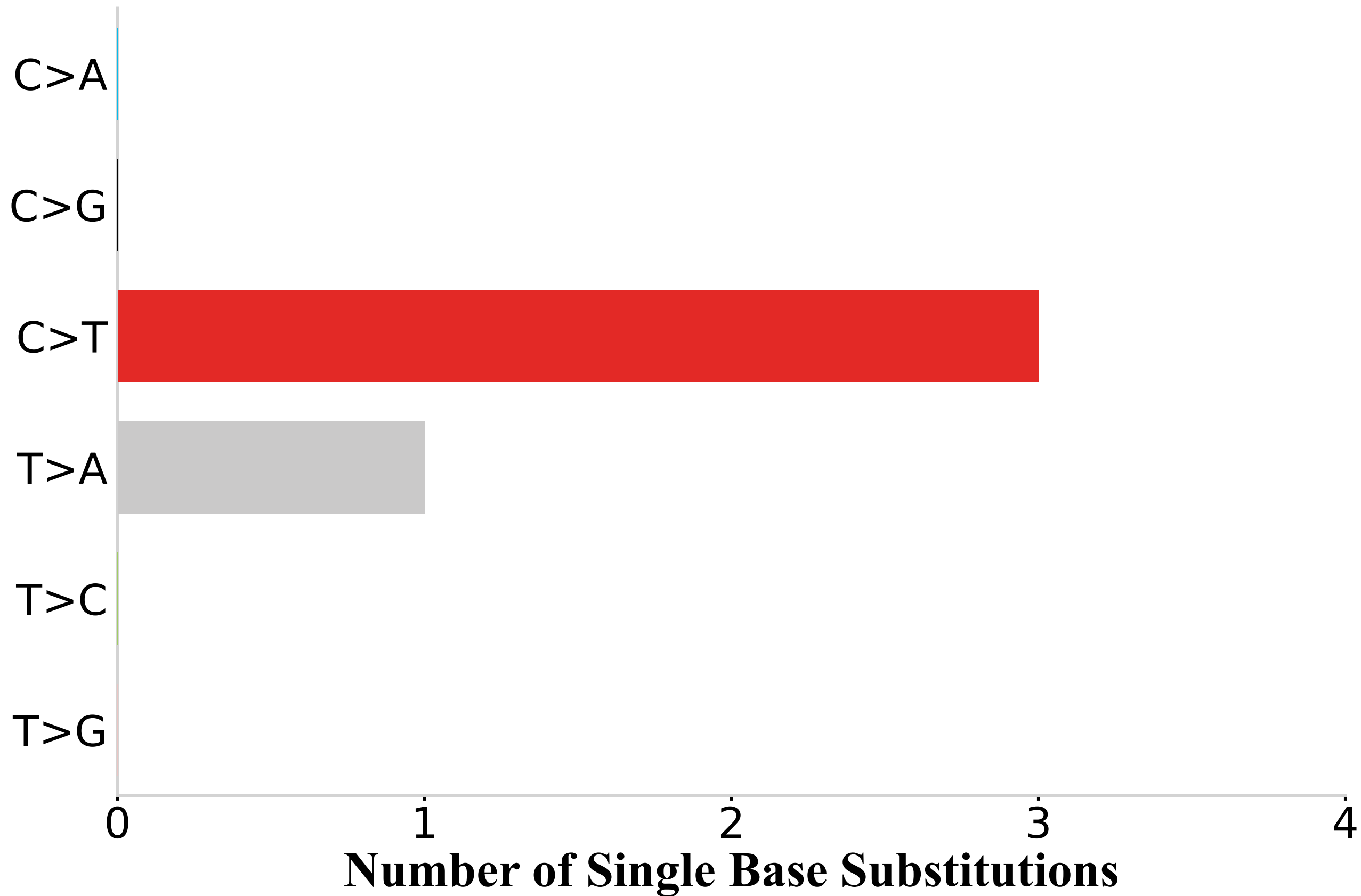
P-0048887-T01-IM6: 7 subs



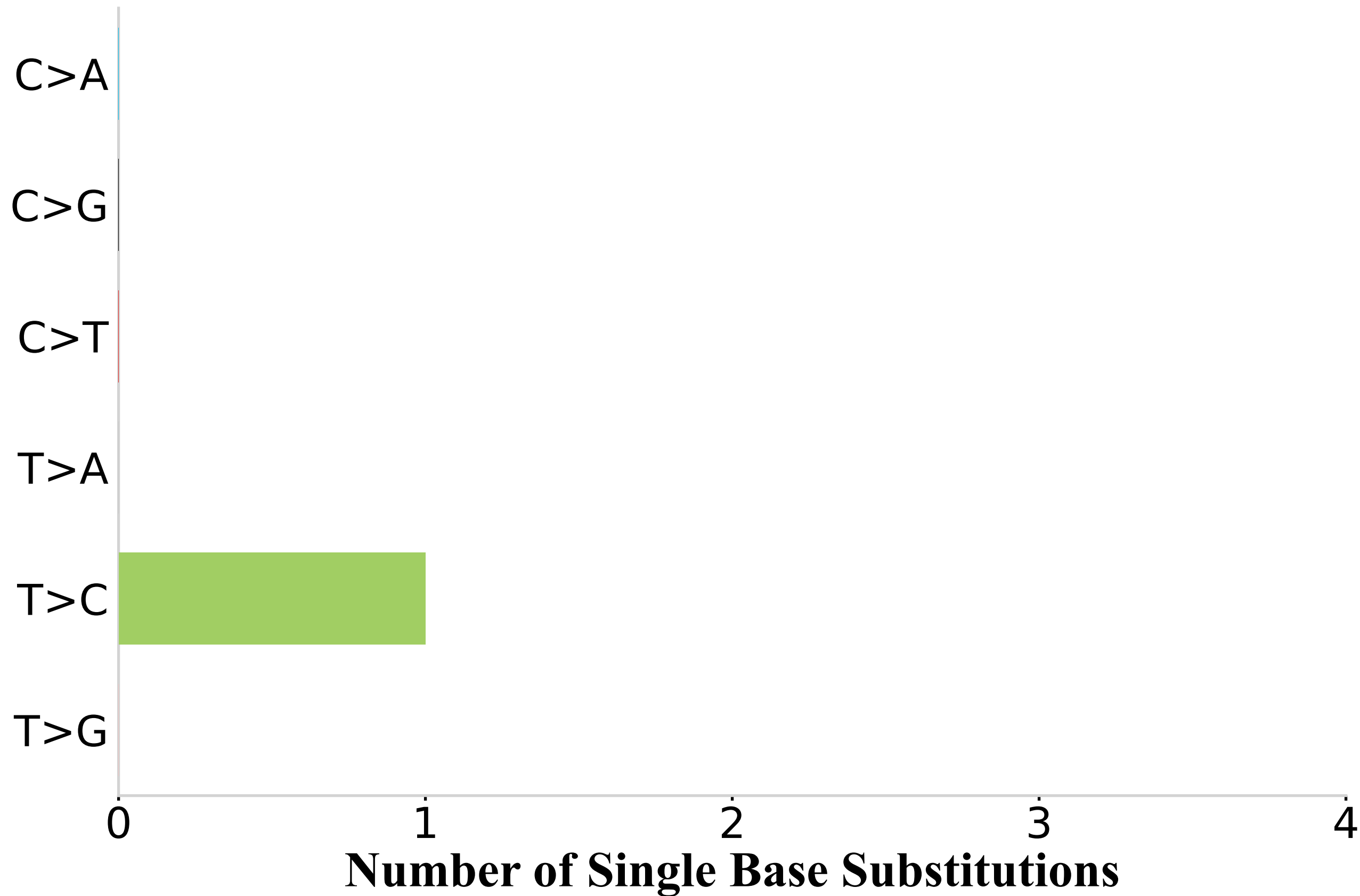
P-0048910-T01-IM6: 6 subs



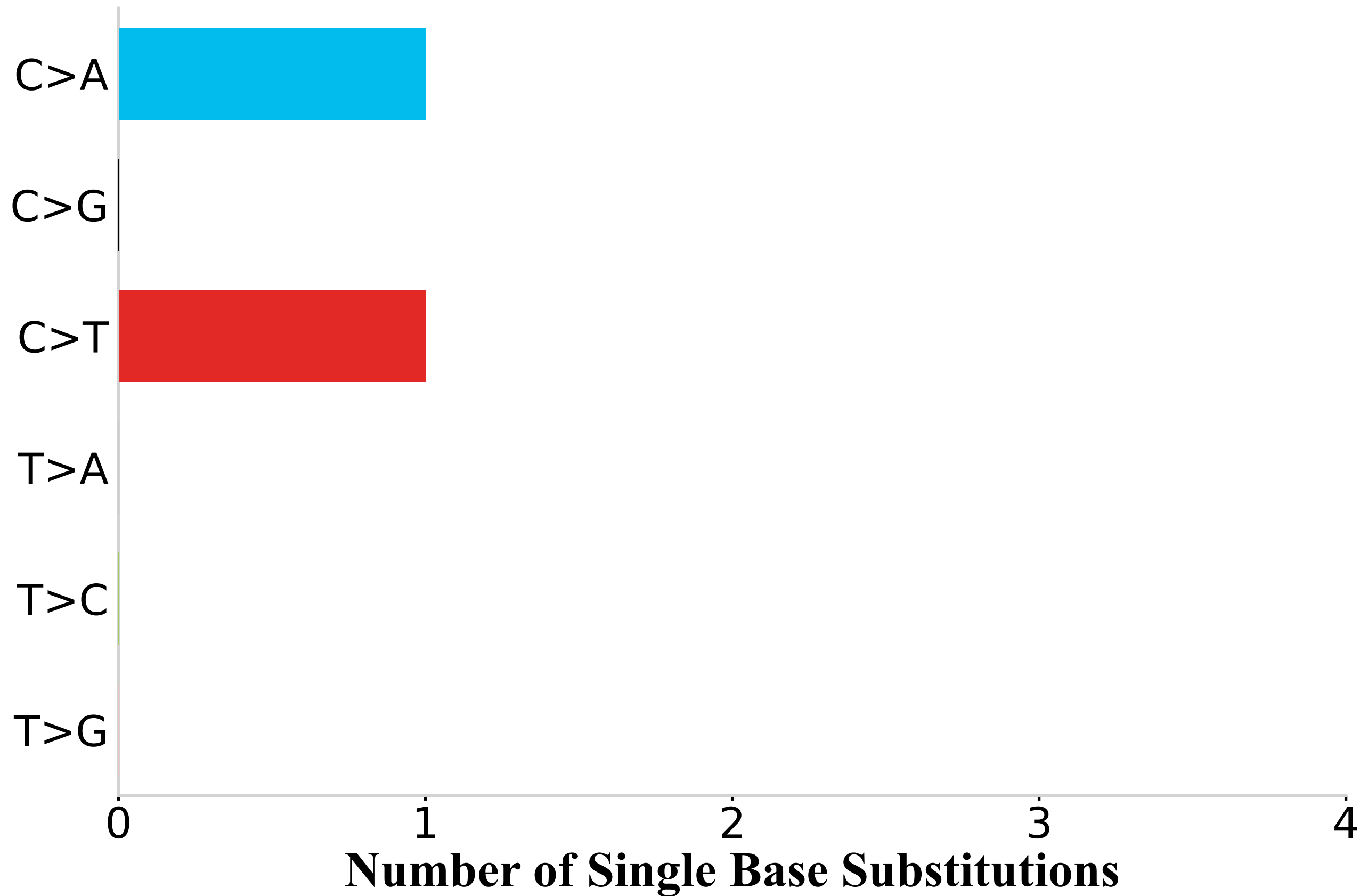
P-0049076-T01-IM6: 4 subs



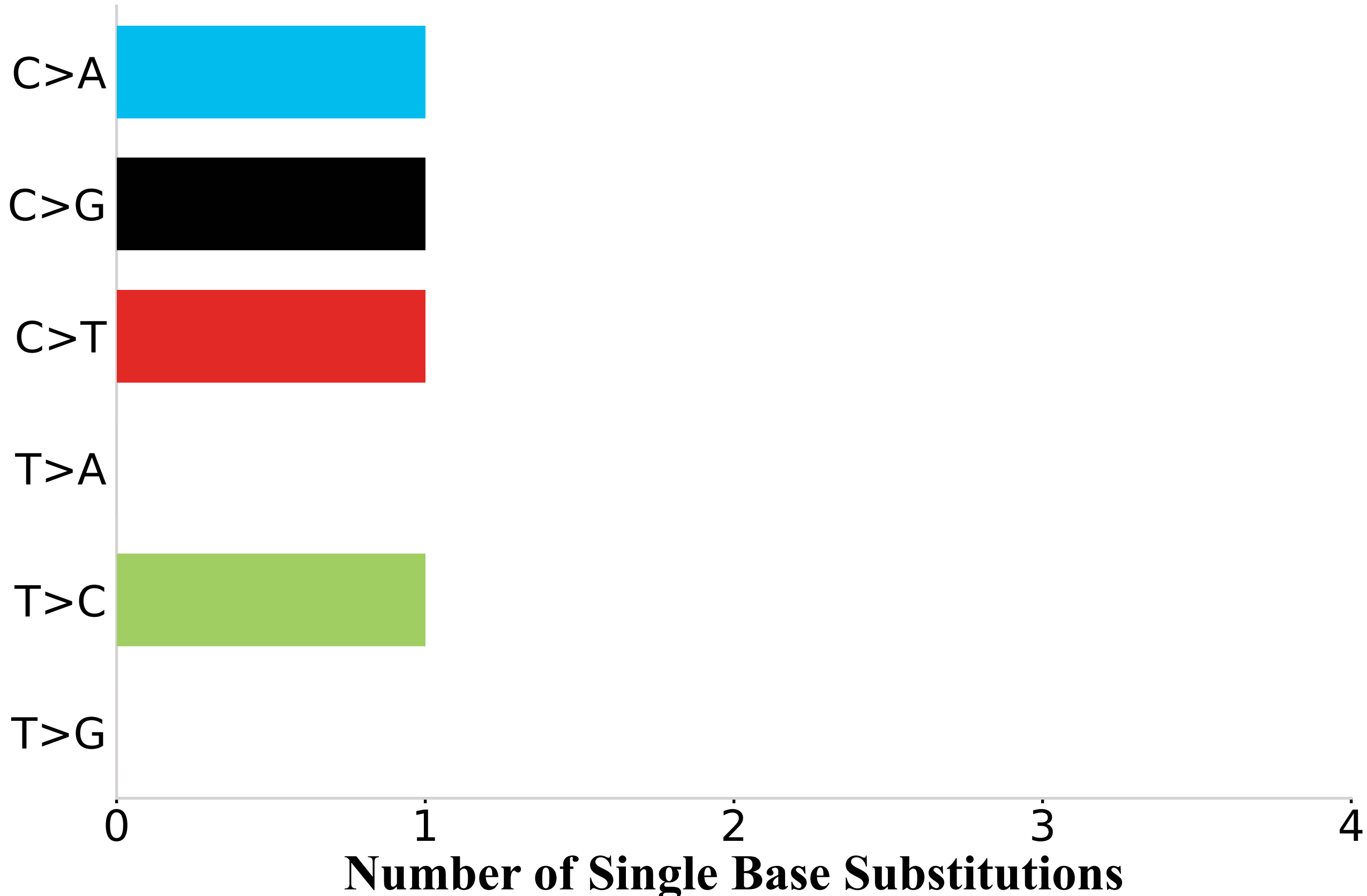
P-0049383-T01-IM6: 1 subs



P-0049482-T01-IM6: 2 subs



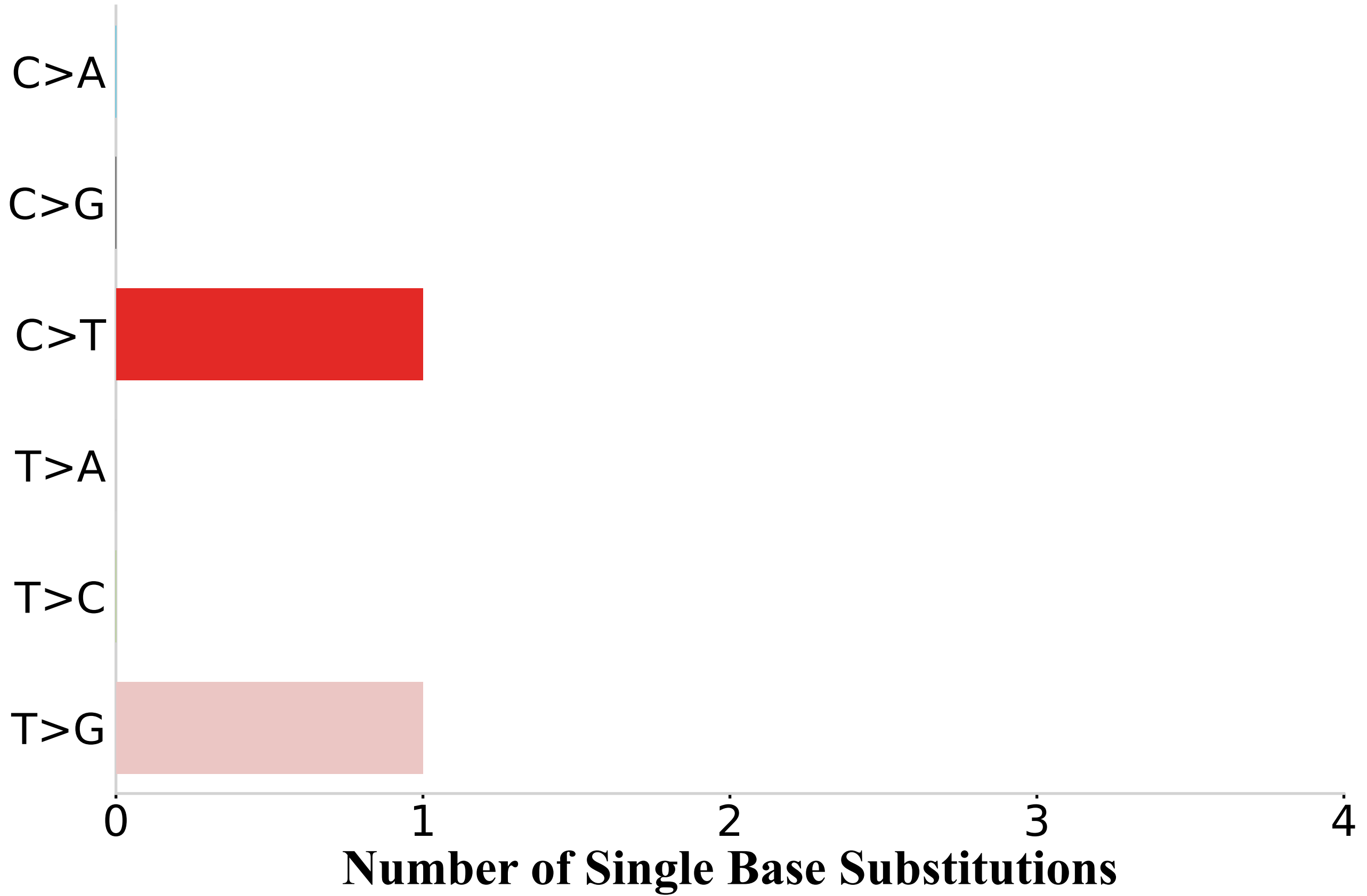
P-0049513-T01-IM6: 4 subs



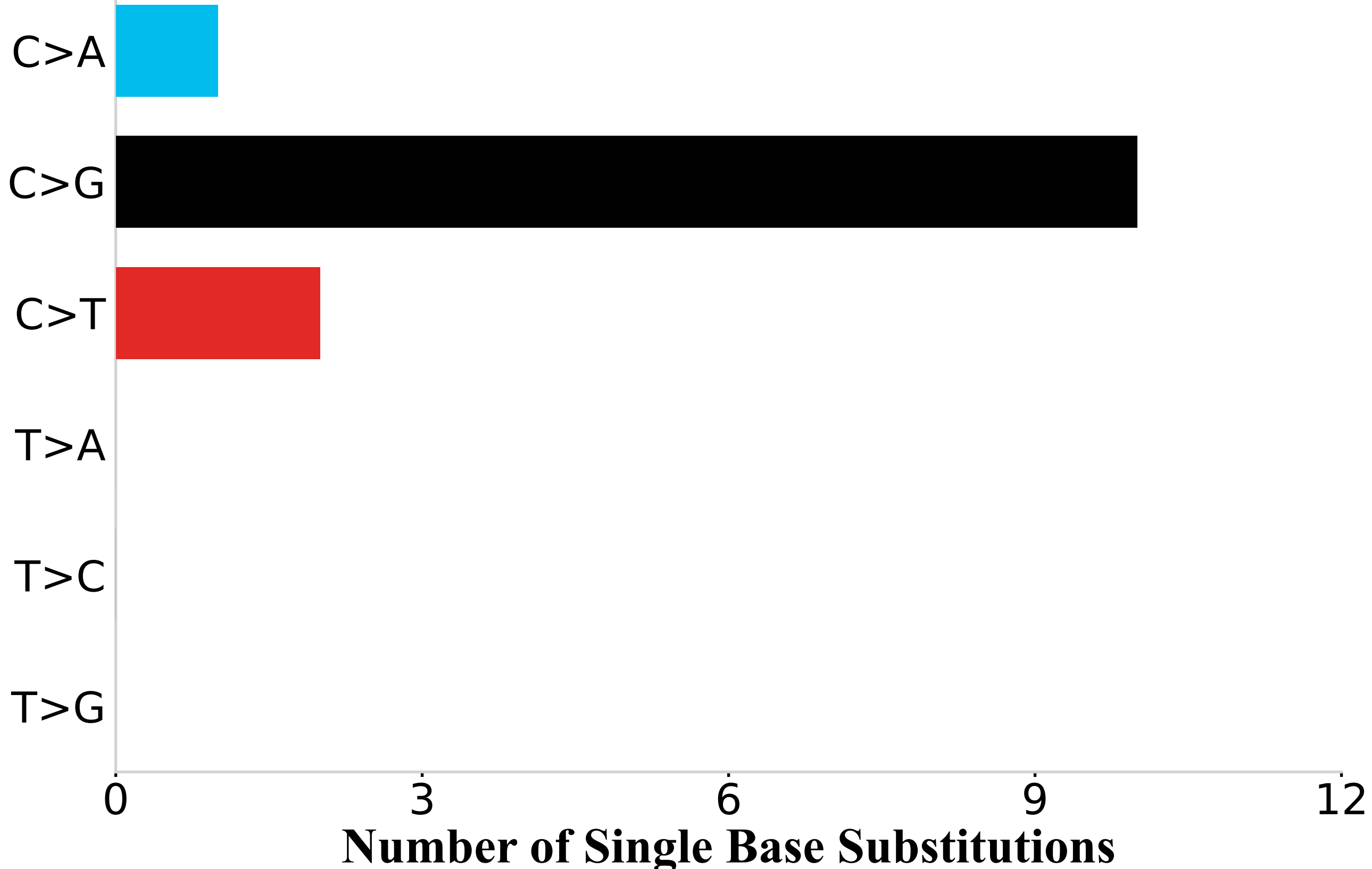
P-0049522-T01-IM6: 1 subs



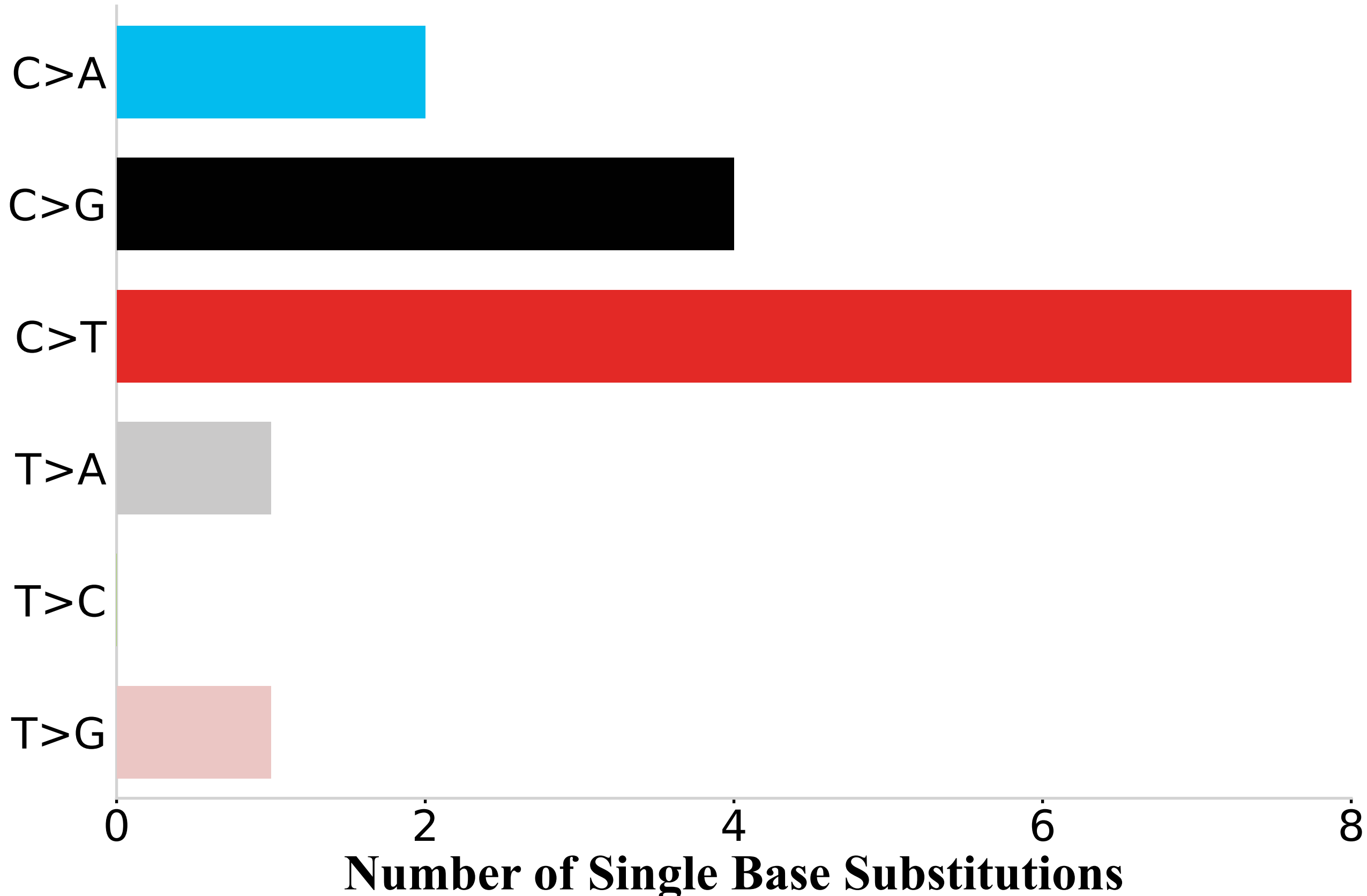
P-0049618-T01-IM6: 2 subs



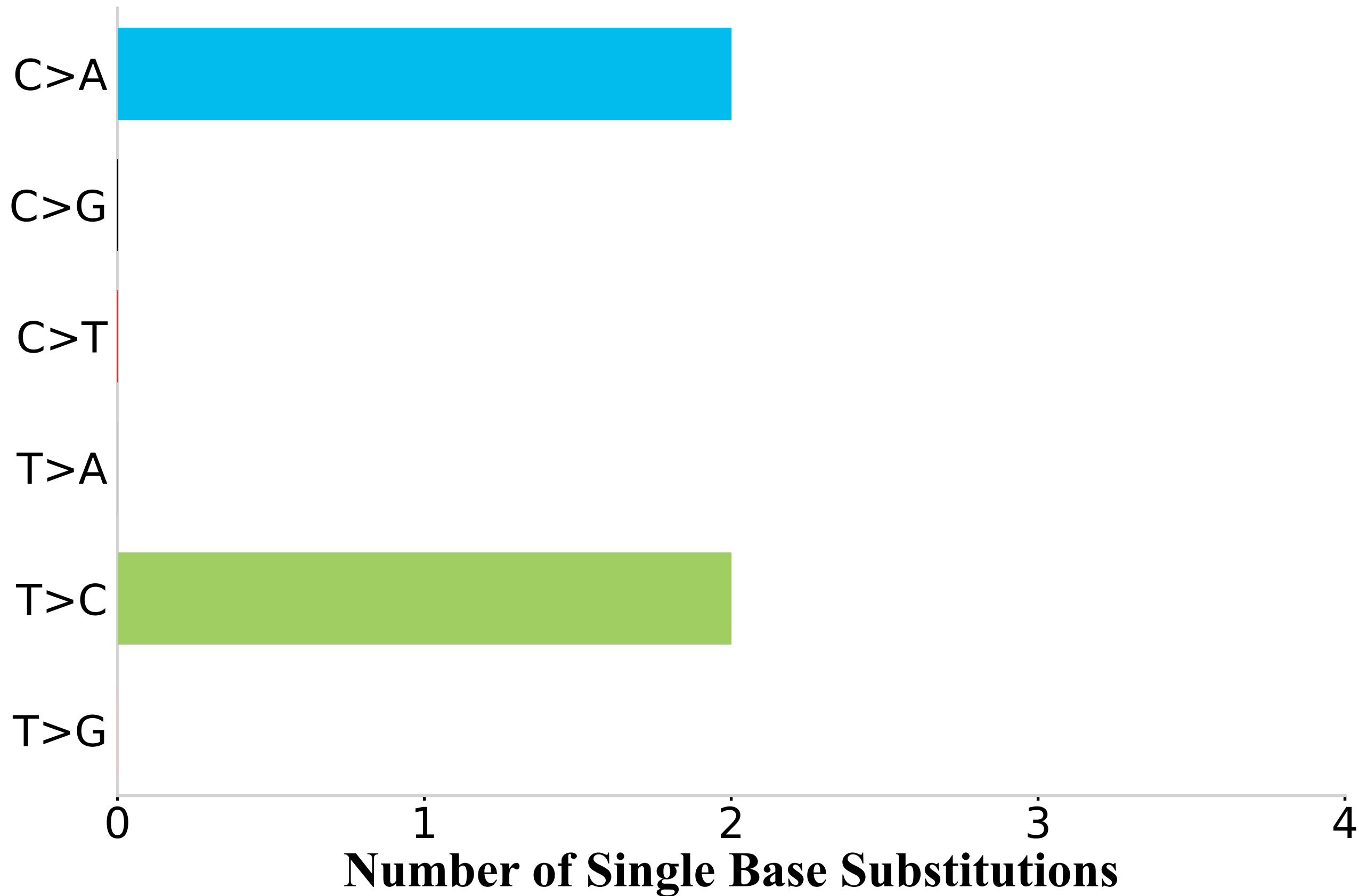
P-0049776-T01-IM6: 13 subs



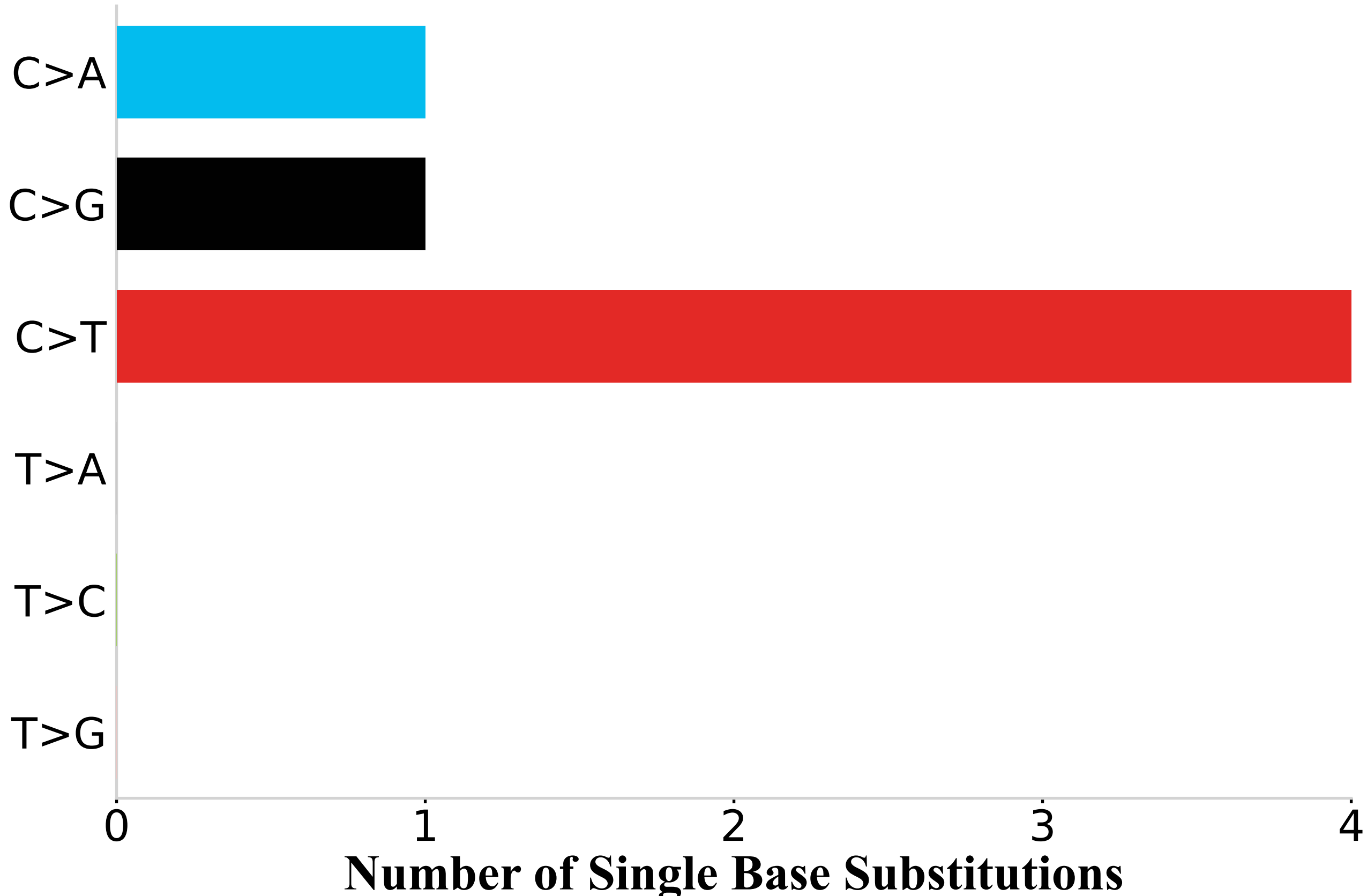
P-0049889-T01-IM6: 16 subs



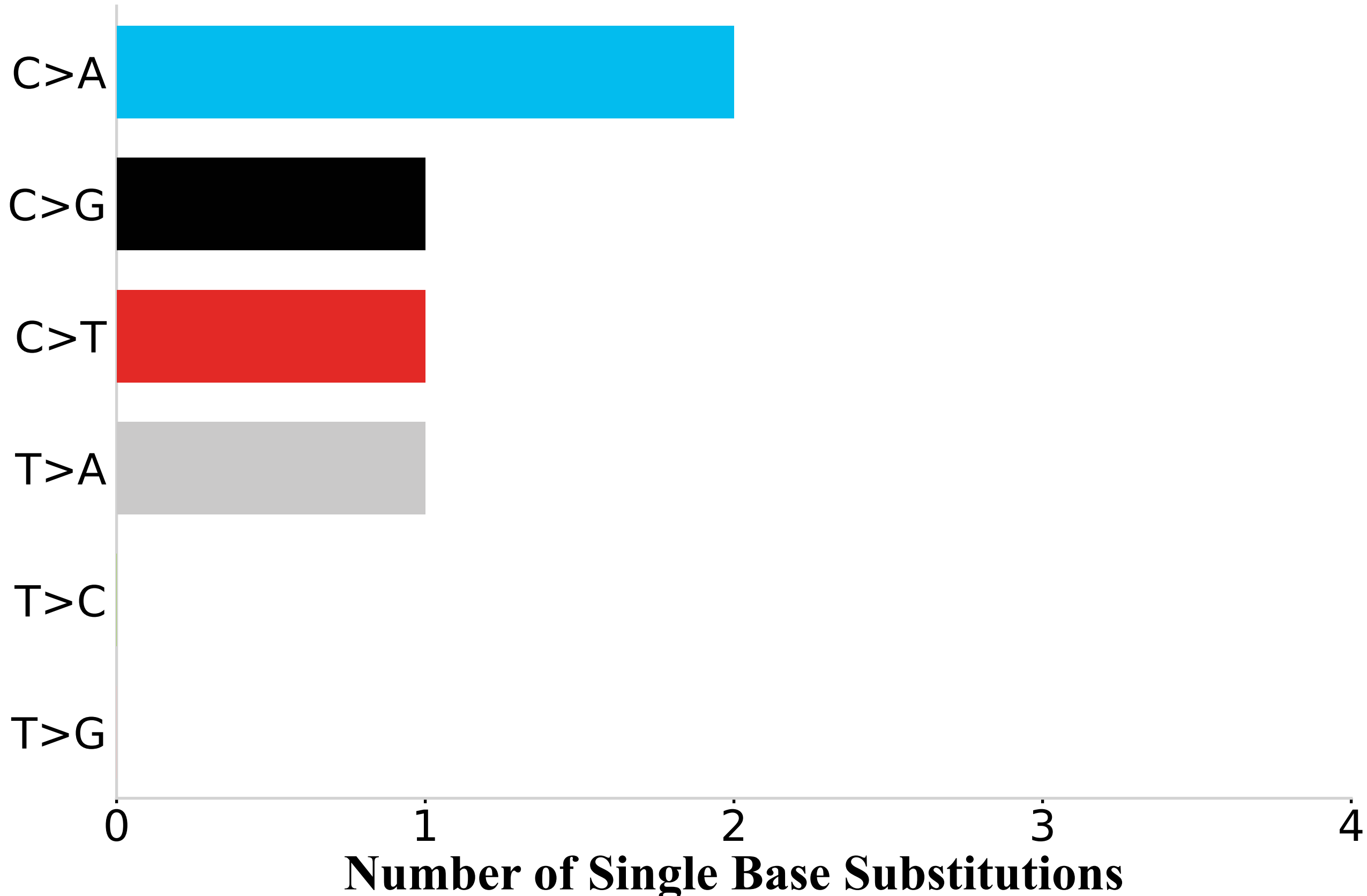
P-0050097-T01-IM6: 4 subs



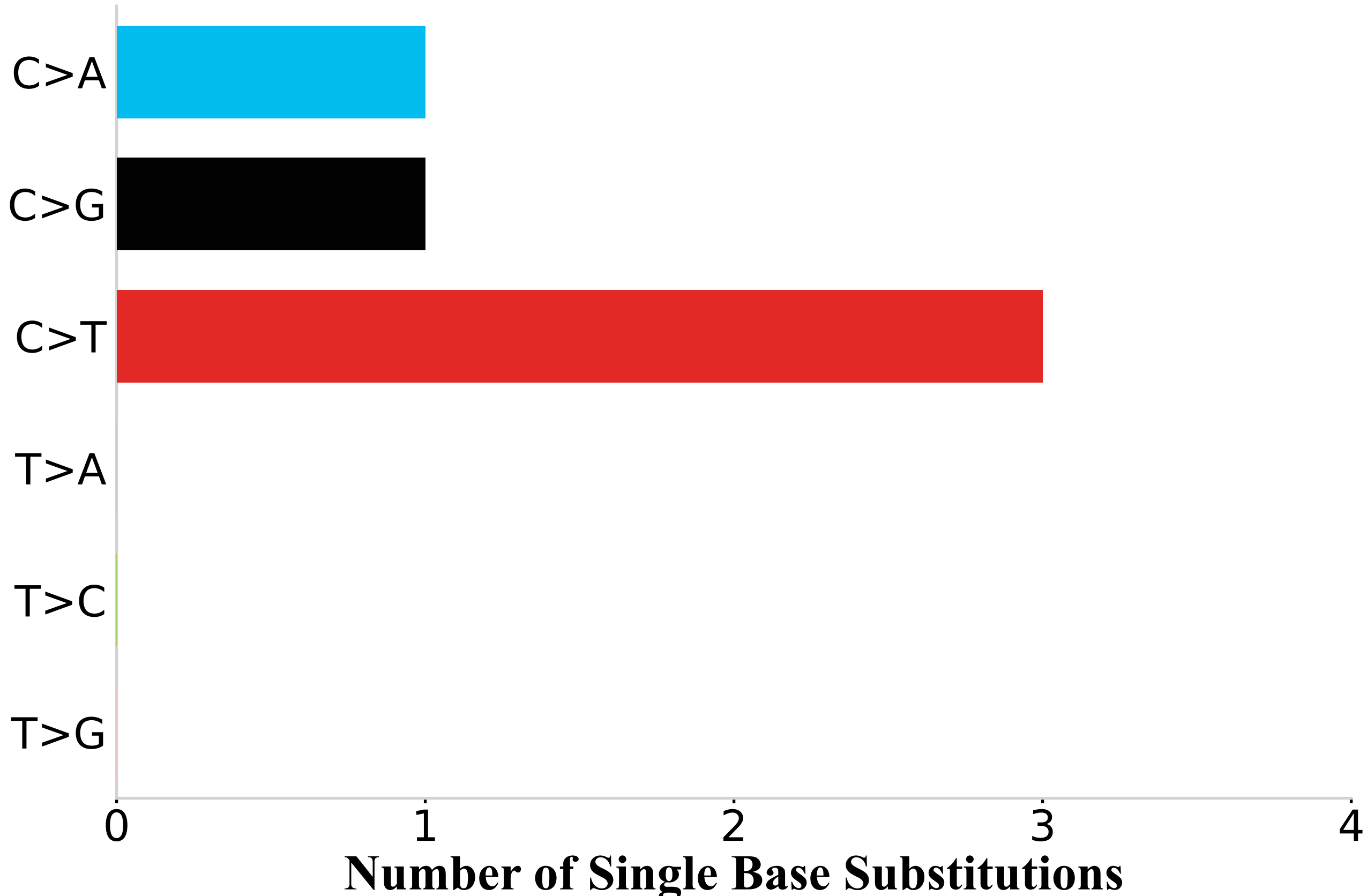
P-0050271-T01-IM6: 6 subs



P-0050351-T01-IM6: 5 subs



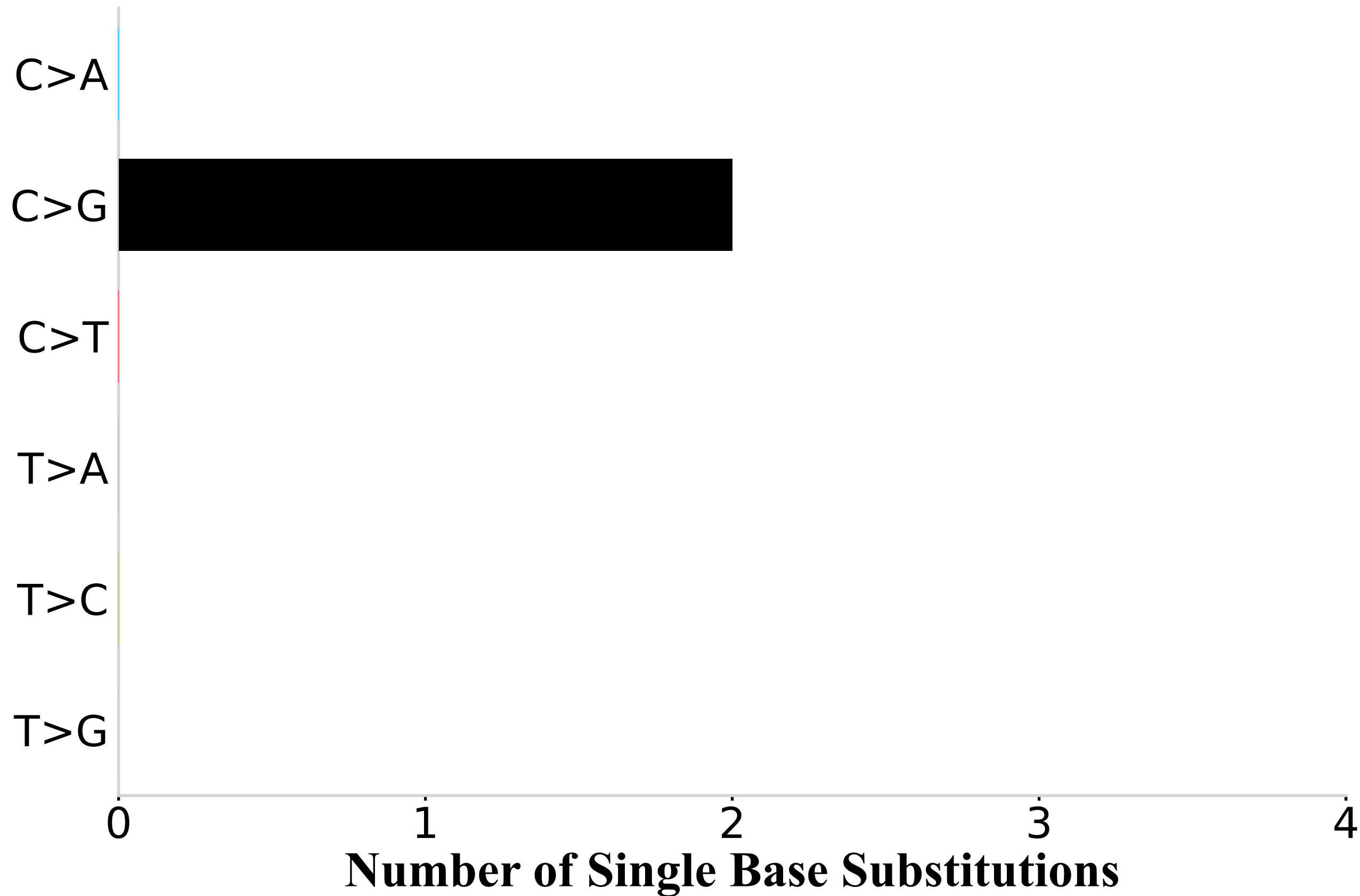
P-0050419-T01-IM6: 5 subs



P-0050465-T01-IM6: 5 subs



P-0050499-T01-IM6: 2 subs



P-0050534-T01-IM6: 4 subs

